1966-1967
BULLETIN

Medical College of Georgia

AUGUSTA, GEORGIA

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MEDICAL COLLEGE OF GEORGIA

Augusta, Georgia

BULLETIN 1966-1967

One-hundred-thirty-sixth session
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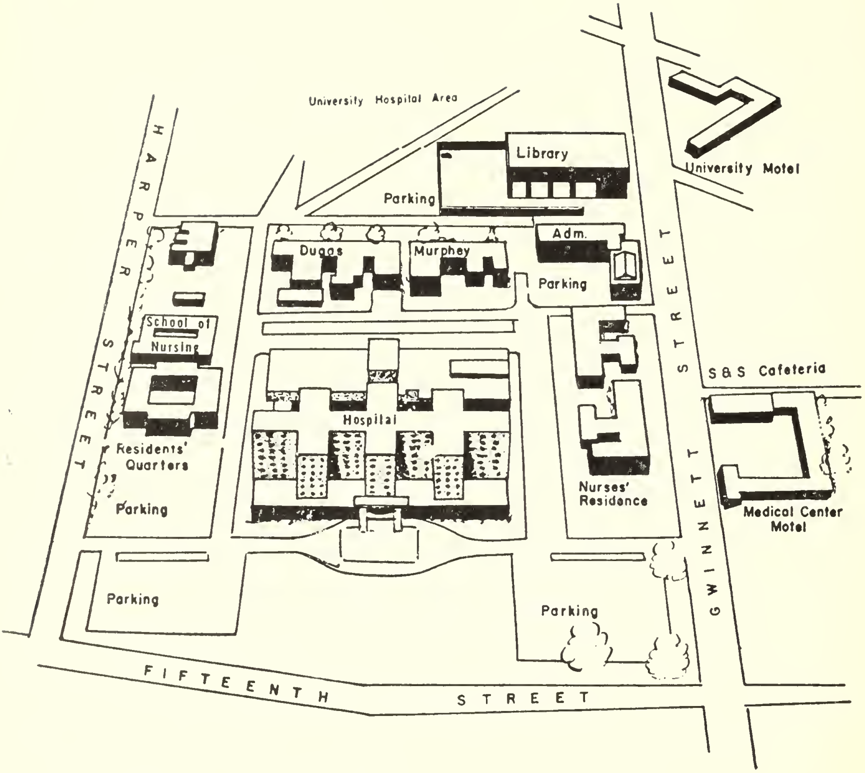

MEDICAL COLLEGE OF GEORGIA CAMPUS

CALENDAR OF PRINCIPAL EVENTS FOR 1966 - 1967 SCHOOL OF MEDICINE

First and Second Year Classes

August 24	Final Date for Completing Re-Examination or Make-Up Work
September 1	First Year Orientation
September 2	First Year Registration
September 6	Second Year Registration, 1st Quarter
September 6	First Year Classes Begin
September 7	Second Year Classes Begin
November 24-27	Thanksgiving Holidays
December 22 - January 1	Christmas Holidays
January 2	Classes Resume
January 4 - 6	Registration, 2nd Quarter
March 22 - 24	Registration, 3rd Quarter
March 28	Student Research Day
April 16 - 21	Spring Holidays
May 20	All Classes End
May 22 - 24	Final Examinations

Third and Fourth Year Classes

August 24	Final Date for Completing Re-Examinations
September 6	Registration, 1st Quarter
September 7	Classes Begin, 1st Block
November 7	Classes End, 1st Block
November 24	Thanksgiving Holidays
December 22 - January 1	Christmas Holidays
January 2	Classes Resume
January 4-6	Registration, 2nd Quarter
January 19	Classes End, 2nd Block
January 20	Classes Begin, 3rd Block
March 21	Classes End, 3rd Block
March 22	Classes Begin, 4th Block
March 22 - 24	Registration, 3rd Quarter
March 28	Student Research Day
May 21	All Classes End
May 22 - 24	Final Examinations
May 31	Commencement

SCHOOL OF GRADUATE STUDIES

Fall Quarter, 1966

August 16	Last day to complete Fall Quarter Applications*
September 6	Early Registration (for classes that begin September 7)*
September 7	Early Classes begin*
September 19	Late Registration (for remaining graduate courses)
September 20 - 22	Schedule changes to be accomplished
September 21	Regular Graduate Division classes begin
November 24 - 27	Thanksgiving Holidays
December 10	Classes End*
December 12 - 15	Final Examinations
December 15	Quarter Ends
December 16 - January 2	Christmas Holidays*

Winter Quarter, 1967

December 13	Last day to complete Winter Quarter Applications
January 3	Registration
January 4 - 6	Schedule Changes to be Accomplished
January 4	Classes Begin
March 14	Classes End
March 15 - 17	Final Examinations
March 17	Quarter Ends

Spring Quarter, 1967

February 27	Last day to complete Spring quarter Applications
March 20	Registration
March 21 - 23	Schedule Changes to be Accomplished
March 21	Classes Begin
April 16 - 21	Spring Holidays
May 5	Last day for filing doctoral dissertations for 1967 graduates
May 12	Last day for filing masters theses for 1967 graduates
May 24	All Classes End
May 24 - 27	Final Examinations
May 27	Quarter Ends
May 31	Commencement

Summer Quarter, 1967

May 23	Last day to complete Summer Quarter Applications
June 12	Registration
June 13 - 15	Schedule Changes to be Accomplished
June 13	Classes Begin
August 18	Classes End
August 22 - 25	Final Examinations
August 25	Term Ends

UNDERGRADUATE PROGRAMS

Fall Quarter, 1966

August 30	Last Day to Complete an Application
September 15	New Students Report to Residences
September 19	Registration
September 22	Classes Begin
September 20 - 22	Course Schedule Changes to be Accomplished
November 24 - 27	Thanksgiving Holidays
December 12 - 15	Final Examinations
December 15	Term Ends
December 16 - January 2	Christmas Holidays

Winter Quarter, 1967

December 13	Last Day to complete an Application
January 2	Students Return to Residences
January 3	Registration
January 5	Classes Begin
January 4 - 6	Course Schedule Changes to be Accomplished
March 20 - 23	Final Examinations
March 23	Term Ends
March 24 - 27	Spring Vacation

Spring Quarter, 1967

March 7	Last Day to Complete an Application
March 27	Students Return to Residences
March 28	Registration
March 30	Classes Begin
March 29 - 31	Course Schedule Changes to be Accomplished
May 25 - 29	Final Examinations
May 29	Term Ends
May 31	Commencement

Summer Quarter, 1967

May 23	Last Day to Complete an Application
June 12	Students Return to Residences
June 13	Registration
June 14	Classes Begin
June 14 - 16	Course Schedule Changes to be Accomplished
August 22 - 25	Final Examinations
August 25	Term Ends

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*The final day for completing an application is 21 days prior to the date of registration; therefore, an applicant registering September 6 must complete application requirements earlier than those registering later in September. Also, note that graduate students registering for basic courses in anatomy, biochemistry microbiology, pharmacology and physiology are taught in classes with medical students. Thus, for graduate students registering for these courses, dates for Fall registration and for Christmas holidays may differ from the dates set for graduate students not taking such courses. It will be noted that students taking these courses will register earlier and the Christmas holidays will start later.

ADMINISTRATION

BOARD OF REGENTS

UNIVERSITY SYSTEM OF GEORGIA

District	*Regent*	*Address*
State-at-Large	Charles A. Smithgall (January 10, 1966 - January 1, 1967)	Gainesville
State-at-Large	Jack Adair (January 13, 1965 - January 1, 1971)	Atlanta
State-at-Large	Roy V. Harris (February 19, 1960 - January 1, 1967)	Augusta
State-at-Large	John A. Bell, Jr. (January 1, 1963 - January 1, 1970)	Dublin
State-at-Large	Carey Williams (January 1, 1962 - January 1, 1969)	Greensboro
First	Anton F. Solms, Jr. (January 1, 1962 - January 1, 1969)	Savannah
Second	John I. Spooner (January 1, 1961 - January 1, 1968)	Donalsonville
Third	T. Hiram Stanley (January 13, 1965 - January 1, 1972)	Columbus
Fourth	H. G. Pattillo (February 5, 1965 - January 1, 1970)	Decatur
Fifth	Jesse Draper (January 1, 1961 - January 1, 1968)	Atlanta
Sixth	James C. Owen, Jr. (February 5, 1965 - January 1, 1971)	Griffin
Seventh	James V. Carmichael (January 19, 1966 - January 1, 1973)	Atlanta
Eighth	John W. Langdale (January 13, 1964 - January 1, 1971)	Valdosta
Ninth	James A. Dunlap (January 10, 1966 - January 1, 1973)	Gainesville
Tenth	G. L. Dickens, Jr. (February 5, 1965 - January 1, 1972)	Milledgeville

OFFICERS OF THE BOARD OF REGENTS

JAMES A. DUNLAP	*Chairman*
JOHN W. LANGDALE	*Vice Chairman*
GEORGE L. SIMPSON, JR.	*Chancellor*
HARMON W. CALDWELL	*Chancellor Emeritus*
L. R. SIEBERT	*Executive Secretary*
JAMES A. BLISSIT	*Treasurer*

MEDICAL COLLEGE OF GEORGIA ADMINISTRATION

OFFICE OF THE PRESIDENT	
HARRY B. O'REAR, M.D.	*President*
MARILYN M. FLEMING, B.S.	*Director of Public Relations*
SCHOOL OF MEDICINE	
WALTER G. RICE, M.D.	*Dean*
RAYMOND P. AHLQUIST, Ph.D.	*Associate Dean*
W. LOREN WILLIAMS, Ph.D.	*Director of Research in Medical Education*
GLEN E. GARRISON, M.D.	*Medical Director of Continuing Education*
E. SCOTT DONOVAN, B.S.	*Assistant Director of Continuing Education*
ANNE B. RIGAS	*Assistant Director of Continuing Education*
CHRISTOPHER C. WILLIAMS, M. Ed.	*Director of Education and Research Service and Supply*
ROBERT H. JACKSON	*Director of Television Research and Service*
SCHOOL OF DENTISTRY	
JUDSON C. HICKEY, D.D.S.	*Dean*
SCHOOL OF GRADUATE STUDIES	
FRANCIS J. BEHAL, Ph.D.	*Director*
SCHOOL OF NURSING	
E. LOUISE GRANT, M.A.	*Dean*
SCHOOL OF ALLIED HEALTH SCIENCES	
DAVID B. McCORKLE, Ed. D.	*Director (Acting)*
ORVILLE A. PARKES	*Director, School of Medical Illustration*
WALTER L. SHEPEARD, M.D.	*Director, School of Medical Technology*
JUANITA SIRMANS, A.B.	*Director, School of Medical Record Science*
CECIL H. HALL	*Director, School of Radiologic Technology*
LIBRARY	
SADIE H. RAINSFORD, A.B.	*Librarian*
COMPTROLLER	
THOMAS N. DWYER, Ll. B.	*Comptroller*
RAY A. LACKMAN, JR., B.B.A.	*Director of Personnel*
W. ROBERT O'KELLEY, JR., A.B.J.	*Director of Purchasing*
ERIC C. GEORGE, C.E.	*Chief Engineer*
STUDENT AFFAIRS	
DAVID B. McCORKLE, Ed. D.	*Director*
SHIRLEY K. FLOWERS, M.Ed.	*Director of Women's Activities*
EUGENE TALMADGE MEMORIAL HOSPITAL	
RUFUS F. PAYNE, M.D.	*Superintendent*
RUSSELL L. McCALL, M.B.A.	*Assistant Superintendent*

GENERAL INFORMATION

THE UNIVERSITY SYSTEM

The University System of the State of Georgia was established in 1931 when control and operational authority over state-aided schools of higher learning was vested in the University System Board of Regents, a constitutional body appointed by the Governor and approved by the Senate. There are fifteen regents, all serving terms of seven years. Members of the Board are appointed from each of the state's Congressional Districts and the remainder from the state at large. The regents select their own officers and appoint a chancellor as chief administrator of the University System. The system consists of 20 institutions including the Medical College of Georgia.

HISTORY, MEDICAL COLLEGE OF GEORGIA

Establishment in Augusta of a Medical Academy for the State of Georgia, empowered to confer the degree of Bachelor of Medicine, was approved by the State Legislature in 1828. In 1829, the academy was named Medical Institute of Georgia and was authorized to award the degree of Doctor of Medicine. The first class enrolled that year for a course of study consisting of the then-customary one four months session. Even at that early date, however, the Georgia medical faculty was advocating a lengthier and more thorough teaching program, but complied with custom because of opposition from other schools.

In 1833 the school adopted the name Medical College of Georgia, and in 1873 it became affiliated with the University of Georgia as its Medical Department. In 1931 all state-aided schools of higher learning, including the medical facility, were merged into the University System of Georgia and administration was assumed by the system's Board of Regents. The name Medical College of Georgia was restored in 1950 when the Regents declared the school to be an independent unit of the University System. Administrative authority now is delegated to the college president.

In 1956 the school moved to its present location and began operation of its own teaching hospital (Eugene Talmadge Memorial Hospital).

The Medical College has functioned continuously in Augusta since it was founded, except for a brief period during the War Between the States.

COLLEGE DEVELOPMENT

The Medical College is now in the midst of planning for a vast building program which ultimately will include expanded facilities for the School of Medicine, a new School of Dentistry, a research and graduate education complex, a classroom-laboratory building, expanded student housing, and a new student center. The new facilities are to be located on an adjacent site.

PROGRAMS

The following degrees and certificates are granted by the Medical College of Georgia through its schools and programs:

SCHOOL OF MEDICINE: The Doctor of Medicine degree.

SCHOOL OF DENTISTRY: The Doctor of Dental Surgery degree has been authorized; the School of Dentistry is currently under development, and the first students are expected to enter in the Fall of 1970.

SCHOOL OF GRADUATE STUDIES: The Doctor of Philosophy degree, the Master of Science degree, the Master of Science in Medical Illustration degree, and the Master of Science in Nursing degree.

SCHOOL OF NURSING: The Bachelor of Science in Nursing degree.

PROGRAM IN MEDICAL TECHNOLOGY: The Bachelor of Science in Medical Technology degree, and a Certificate in Medical Technology in conjunction with the cooperative programs.

PROGRAM IN MEDICAL RECORD SCIENCE: Bachelor of Science in Medical Record Science degree, and a Certificate in Medical Record Science.

PROGRAM IN RADIOLOGIC TECHNOLOGY: Bachelor of Science in Radiologic Technology degree, and a Certificate in Radiologic Technology.

FACILITIES FOR INSTRUCTION

The Medical College of Georgia campus, situated in the approximate center of Augusta, is convenient to the downtown business district. The locations of the college's various facilities are shown on the campus map (page 4).

Administration Building. First floor: offices of college President, Dean of School of Medicine, Registrar, Student Affairs, Comptroller, Book Store, Alumni Association, Continuing Education, Educational Research, Director of Public Relations and Student Lounge. Second floor: Department of Anatomy. Third floor: classrooms and laboratories for experimental surgery.

Murphey Building. Departments of Pathology and Medical Microbiology and Public Health.

Dugas Building. Departments of Biochemistry, physiology, Pharmacology, and Medical Illustration.

Library. The medical library houses open stacks, reading and study areas, individual carrels, and small group study rooms in a modern two-story building. The library subscribes to over 1,000 scientific periodicals, and has more than 47,000 volumes cataloged. A collection of historic volumes, some dating from the sixteenth Century, is located in the Rare Books Room. The Dr. William J. Young Endowment contributes to the support of the library.

Eugene Talmadge Memorial Hospital. The hospital is an integral part of the Medical College, contributing teaching and clinical research facilities for both faculty and students. It contains approximately 500 active teaching beds with supporting X-ray, laboratory, physical medicine, surgery, and dietary facilities.

In the hospital is a Clinical Investigation Unit of ten beds with core laboratories; and a Hemodynamic Clinical Research Unit with biochemical, physiological and radiological laboratories for advanced studies of human heart disease. The hospital also houses the Southeastern Respiratory and Rehabilitation Center for the long-term management of respiratory paralysis.

The clinical, teaching, and research facilities are utilized for the benefit of students in medicine, nursing, medical record science, medical technology, medical illustration, radiologic technology, and in the sciences basic to medicine.

Clinical Research Annex. A ten-floor annex to the teaching hospital, containing special laboratories for research.

University Hospital. A city-county community hospital, some facilities of which are used for teaching purposes.

Gracewood State School and Hospital. The facilities and patients of this state institution are available for clerkships and clinical demonstrations of neurologic, biochemical, and genetic disorders. It is located on the outskirts of Augusta.

Veterans Administration Hospital. Students serve as ward clerkships in medicine and surgery at the Forest Hills Division, located about two miles from the Medical College campus.

Outpatient Department. An outpatient service, maintained at University Hospital for indigent patients of Richmond County, is staffed by the Medical College. In addition, specialty outpatient services are scheduled.

Augusta-Richmond County Health Department. Located adjacent to the campus, it contributes to the teaching programs in public health, pediatrics, and obstetrics.

Battey State Hospital, Rome, Georgia. A state Hospital which participates in the thoracic surgery resident training program.

FEES AND EXPENSES

The college reserves the right to make changes in its fees, charges, rules, and regulations at the beginning of any quarter without previous notice. Information concerning additional expenses for specific graduate and under-graduate programs will be found under the various program listings elsewhere in this Bulletin. The appropriate fees listed here should be combined with the expenses listed under the different programs in order to calculate accurately the total costs to be paid by the student.

FEES FOR THE ACADEMIC YEAR

A. Medical Students	
Residents	$ 750.00
Non-residents	1,500.00
B. Graduate students (Doctoral and Masters)	
Residents	285.00
Non-residents	705.00
C. Undergraduate students	
Residents	285.00
Non-residents	705.00
D. Part-time Graduate and undergraduate enrollment per quarter hour:	
Residents	8.00
Non-residents	20.00

SPECIAL MATERIALS

First and second year medical students and medical illustration students	40.00
Breakage Deposit	20.00

Medical Technology and Graduate students only. Covers expendable supplies.

It is refunded, minus charges, at the end of the academic year.

Diploma Fee	7.00

All students who are prospective degree candidates; payable by no later than the Winter Registration Period for June degree candidates. Not refundable.

Academic Regalia

The rental costs of academic regalia used by all persons participating in the Commencement Exercise is borne by the individual. Costs of the regalia depend upon the level of the degree being conferred; rental charges are obtainable from the College Bookstore. Rental Charges are payable when the regalia is received shortly before Commencement.

College Residence Quarters (per quarter)	60.00

For women students in medicine, nursing, medical art, and medical record science, medical technology and X-ray. The rate is based on occupancy of two students per room. Rate for single occupancy, if available, will be an additional $20 per quarter. The Director of Women's Activities reserves the privilege of granting or assigning single occupancy.

Room refunds. A student withdrawing from the college will be charged a daily rate for room and board from the beginning of the quarter to the date of withdrawal. The balance due, if any, will be refunded at the end of the quarter. No refund of matriculation and room fees is made in case of a disciplinary suspension. Payments for room will not be refunded to a student who, while continuing to be a student at the college, moves to a private house or sorority or fraternity house, or who ignores a room assignment.

TRANSCRIPT FEE

A fee of $1 each may be charged for copies of official transcripts of students' records. This charge will not be made for the first official copy requested by the student.

FOOD COSTS

Students are responsible for their own meals. Meals or individual items may be purchased in the hospital cafeteria or snack bar; or meals are available at nearby restaurants.

NOTES AND POST-DATED CHECKS

These will not be accepted in payment of obligations owed the Medical College of Georgia.

REFUND OF FEES

There may be no refund of laboratory fees except in cases of serious illness. A medical student withdrawing within four weeks after the beginning of any quarter, who obtains from the President a statement of honorable standing and from a physician a certificate of inability to remain in attendance, is allowed a refund of one-half the payment due on fees at the time of registration. No refund is allowed if a student withdraws later than four weeks after the beginning of a quarter for which fees were paid.

Graduate and undergraduate students in good standing who formally withdraw from their respective programs are entitled to the following prorated refund of fees:

80% if withdrawal is within 7 days following the last day of registration;
60% if withdrawal is within 8 to 14 days following the last day of registration;
40% if withdrawal is within 15 to 20 days following the last day of registration;
20% if withdrawal is within 22 to 28 days following the last day of registration.

Refund for students who are veterans are made on a prorated day to day basis.

FINANCIAL ASSISTANCE FOR MEDICAL STUDENTS

Financial aid is available for many medical students. Application forms and information may be secured from the Department of Student Affairs. Among the funds from which loans may be made are the following:

STUDENT LOAN FUND, established in 1926 by Dr. James Russell Howell.

EUGENE E. MURPHEY FUND, donated by Mr. Byron B. Taggert in honor of Dr. Murphey.

DeLEON LABORATORIES FUND, given in 1955 by Mr. Harold Palmer, president of the pharmaceutical firm.

W. K. KELLOGG FOUNDATION, the 1942 and 1943 grants of which have evolved into a permanent fund.

CARLIN ALEXANDER FUND, sponsored by the Phi Rho Sigma Wives Club in memory of a former member.

AUGUSTA JAYCEE STUDENT LOAN FUND, given to the Medical College for the purpose of encouraging or securing Federal matching funds for students in undergraduate programs.

MEDICAL DAMES STUDENT LOAN FUND, established in 1964 for the benefit of married students.

GEORGIA PEDIATRIC SOCIETY LOAN FUND, given in 1959 to provide needy students with temporary financial help.

HEALTH PROFESSIONS STUDENT LOAN FUND for the benefit of fulltime students in good standing. The maximum annual loan is $2,000.

AMA-GUARANTEED MEDICAL EDUCATION LOANS, a cooperative effort by the American Medical Association and private enterprise. Up to a total of $10,000 may be borrowed over a seven-year period to meet education costs incurred by students, interns, and residents.

STATE MEDICAL EDUCATION BOARD. Established by a Georgia constitutional amendment, its purpose is to grant scholarships to bona fide residents of the state to help defray tuition and other student expenses in any accredited four-year medical school in the United States. Awarded to individual students in amounts up to $5,000, they are made available in annual installments of up to $1,250. A student receiving this aid is required to sign a contract in which he agrees to repay the scholarship by providing professional medical service in a community of his choice with a population of 5,000 or less. $1,000 of the scholarship, together with interest, will be credited to the recipient for each year of medical practice in the approved community. Further information is available on request from:

The Secretary
State Medical Education Board
Fourth Floor
244 Washington Street, S. W.
Atlanta, Georgia

GEORGIA HIGHER EDUCATION ASSISTANCE CORPORATION. Maximum amount available to medical students is $1500 per school year. Application should be made approximately three months in advance of the time funds will be needed. Information and application forms may be obtained by writing: Georgia Higher Education Assistance Corporation, 244 Washington Street, S. W., Atlanta, Georgia.

FELLOWSHIPS, TRAINEESHIPS, ASSISTANTSHIPS FOR GRADUATE STUDENTS

The fellowships and assistantships offered by the School of Graduate Studies of the Medical College of Georgia are listed below. Further information concerning them is available from the Graduate Studies office.

Medical College of Georgia Graduate Fellowships: These carry stipends of $2800-$3400 per year and are awarded to outstanding students. Holders of these fellowships are required to enroll for full-time graduate study.

National Defense Education Act Graduate Fellowships: These carry a stipend of $2400-$2800 per year plus a dependency allowance and provide tuition and other required matriculation fees.

National Institutes of Health Graduate Traineeships: These carry a stipend of $2200 - $3000 per year and provide tuition and other required fees.

Graduate Teaching Assistantships: These carry a stipend of $2600-$3000 per year plus certain other benefits, and require one-third to one-half of the student's time in laboratory preparation or instruction.

Graduate Research Assistantships: The stipend range is from $2400-$3000 per year and certain other benefits. A minimum of one-third time in service is required.

FINANCIAL ASSISTANCE FOR UNDERGRADUATES

The high school senior who feels he will need financial aid to attend College should file a Parents' Confidential Statement with the College Scholarship Service, Box 176, Princeton, New Jersey, 08540. The high school counselor can possibly supply this Statement, as well as give information on local scholarship or loan sources.

The code number of the Medical College of Georgia for use on line 13 of the Parents' Confidential Statement is 5406.

Any undergraduate applicant desiring information on available financial assistance at the Medical College should contact the Director of Women's Activities. It is advisable that inquiry be made as early as possible, as there are limited funds in some financial programs, as well as stated deadlines for accepting applications.

STUDENT HEALTH SERVICE

Medical Care

The Student Health Service is under the supervision of a designated school physician. Physical examinations, immunizations, and X-Ray and laboratory procedures are completed on all students in Medicine, the School of Graduate Studies and the Undergraduate programs. Additional periodic examinations are made and indicated treatment is provided. The fee for this student service is $10 per year.

Hospitalization and Insurance Protection

All full-time students of the Medical College of Georgia participate in a group hospitalization and life insurance plan. Partial Schedule of Benefits and Costs is listed below:

	Medical Student	*Dependents of Medical Students*	*Other Students*	*Dependents of Other Students*
Life Insurance	$3,000.00	0	$3,000.00	0
Accidental Death & Disability	3,000.00	0	3,000.00	0
Daily Room & Board (maximum)	12.00	12.00	12.00	12.00
Incidentals	180.00	180.00	180.00	180.00
Surgical Fees (Maximum)	0	0	200.00	200.00
Annual Cost	30.48	73.44	41.28	105.24

ADMISSION REQUIREMENTS

The specific additional requirements for admission to the various programs of the Medical College of Georgia are outlined in detail under designated listings in later sections of this Bulletin.

The following are general requirements for all programs offered by the Medical College, and are in addition to specific requirements of individual programs.

Application forms. Submission of completed application forms by the deadline date specified by each academic program is required. No application will be considered if received or completed after the established deadline date. (See schedule, page 16).

Physical examination. The applicant is required to pass a physical examination performed by a licensed physician. Forms for this examination will be sent to the applicant by the Registrar of the Medical College. The applicant must make necessary arrangements for the examination. When completed, the form should be mailed directly to the Registrar by the examining physician. Medical reports which do not conform to these regulations may not be accepted.

Personal interviews. Personal interviews with members of the faculty or with the Dean or Director of the various programs are required of the applicant. Further information regarding these interviews will be found under the individual program listings

Pre-entrance testing. The Medical College Admission Test is required of all applicants to the School of Medicine. The Graduate Record Examination (aptitude and advanced test) is required of most applicants to the Graduate Division. The College Entrance Examination-Scholastic Aptitude Test is required of all applicants applying for programs which confer baccalaureate degrees. (The Medical College's code number is: 5406). In addition, other pre-entrance and placement tests may be required by various departments and schools. Information concerning these tests is listed with each program's specific requirements for admission, if applicable.

Academic Achievement. Preference will be given the applicant who has demonstrated superior academic ability. The applicant must present evidence of graduation from an accredited high school or its equivalent. Preference will be given the applicant to undergraduate programs who has emphasized high school subjects in the sciences (mathematics, chemistry, physics, biology, zoology) and the liberal arts. The entering freshman must present credentials to indicate completion of the following minimum high school credits from an accredited high school:

	Units
English	4
Math (must include one unit of algebra)	2
Sciences (general biology, chemistry, physics)	2
Social studies (one unit of American history)	2
Other academic units	4
Unrestricted electives	2

Transfer credit. Courses and credits transferable to an undergraduate curriculum from other colleges or universities must have an over-all grade average acceptable to the Medical College. College credit will not be allowed for such courses as Remedial Mathematics, or other courses basically of secondary school level.

A transfer student may be allowed to transfer credits and hours in "D" grades not to exceed 20 per cent of all "C" or better grades, provided the overall grade average qualifies for acceptance. The same rule applies to grades in courses in residence to be used toward requirements for any undergraduate degree.

A student transferring into professional cirricula from non-collegiate institutions shall be required to have professional course work validated by standardized examinations in order to gain advanced standing and receive college credit for such course work.

An applicant who wishes to transfer to the Medical College should have transcripts of all course work from all institutions submitted by Registrars at institutions formerly attended, and in accordance with instructions sent with application materials. Transcripts sent by a student, or unofficial transcript, (unsealed or unsigned) will not be accepted.

Correspondence courses are discouraged. Not more than one-fourth of the courses for degree requirements may consist of correspondence or extension courses.

APPLICATION PROCEDURE

The following procedure applies to all prospective students who plan to enter any of the curricula offered by the Medical College of Georgia.

Information and application materials. Application forms, instructions and information are available on request from the Office of the Registrar, Medical College of Georgia, Augusta, Georgia, 30902. All documents and other materials submitted by or for a person in connection with his interest and consideration for admission to the Medical College of Georgia become the property of this institution and cannot be returned at any time.

Application deadlines. The closing dates on which an application may be submitted to the Registrar for any of the Medical College's programs are given below. Registration dates are listed in the applicable calendars (pages 5, 6, 7).

Program	*Application Completion Deadline*
School of Medicine	December 1, 1966
School of Graduate Studies	21 days before registration
School of Nursing	21 days before registration
School of Medical Record Science	21 days before registration
School of Medical Illustration	January 31, 1967
School of Medical Technology	April 1, 1967
School of Radiologic Technology	May 15, 1967

Acceptance. Individual applications are given a careful and thorough review by an appropriate Admissions Committee, composed of members of the faculty. Acceptance is based on a majority decision of the Committee. Acceptance letters are sent by the Department of Student Affairs or Registrar.

Application deposits. Application for admission to a graduate or undergraduate curricula must be accompanied by a deposit of $25.00 which is credited to the matriculation fee if the student is accepted. In addition, a woman applicant wishing to reside in the college dormitory is required to deposit a $15.00 room reservation fee. The deposit is refundable only if the applicant is not accepted, or if the student withdraws his application prior to the application deadline. The deposits do not apply to the School of Medicine.

Readmission. A former student of any curricula offered by the Medical College who has been absent from the campus and has not registered for the preceding academic quarter, or longer, is required to submit a letter of application requesting readmission. The letter should be sent directly to the Registrar by no later than the application deadline, indicating the program and quarter for which the applicant is requesting readmission. Students not registered during the Summer quarter are exempt from this requirement if they attended the preceding Spring quarter.

ACADEMIC REGULATIONS

Units of credit. The unit of credit is the quarter hour. A quarter hour equals one hour of class work per week for one quarter, or its equivalent in other forms of instruction.

Classification of students. In the School of Medicine a student will be classified as freshman, sophomore, junior or senior, according to policies determined by the Promotions Boards of the School of Medicine.

In the undergraduate programs, a student will be classified according to the number of academic quarter hours completed, either in residence or by transfer. A student who has completed less than 37 hours of work will be classified as a freshman; completion of at least 37 hours but less than 86 hours will earn classification as a sophomore; completion of at least 86 but less than 131 hours merits classification as a junior; completion of 131 hours or more earns classification as a senior.

Students in the Graduate School will be classified as outlined on page 38.

The classification under which a student registers at the beginning of the academic year will continue throughout the academic year.

Grading system. Two grading systems are used by the Medical College of Georgia, one by the School of Medicine and the Graduate School and the other by the various undergraduate programs.

Grades for the School of Medicine and the Graduate School are recorded in accordance with the following system:

Grade	*Description*
4	All around superior student
3	Better than satisfactory
2	Satisfactory knowledge and performance
1	Borderline or questionable accomplishment
0	Unsatisfactory, without reservation
W	Withdrawn, In Good Standing
In	Incomplete

A student who withdraws while doing unsatisfactory work, or without necessary approvals, will be assigned the grade "0".

Grades for the undergraduate programs will be recorded as follows:

Grade	*Description*	*Quality Points*
A+	Exceptional	4.5
A	Excellent	4.0
B+	Very good	3.5
B	Good	3.0
C+	Average	2.5
C	Fair	2.0
D+	Poor	1.5
D	Very poor	1.0
F	Failure	0.
WF	Withdrew failing	Not computed
WP	Withdrew passing	Not computed
IN	Incomplete	Not computed
AU	Auditor	Not computed

General education courses for undergraduate students. The Medical College of Georgia is a state-aided unit of the University System of Georgia. Being a professional education institution, the college does not maintain faculty for teaching general education courses in the liberal arts and sciences. Other accredited institutions of the University System, also located in Augusta, have been designated to assume the responsibility for offering general education courses for all baccalaureate students registered at the Medical College. Credits and grades for such courses are accepted by the Medical College directly from these institutions as though the courses were taught on the medical campus, provided the student is registered at this institution while taking the courses.

Lower Division general education courses numbered 10 through 399 are offered by Augusta College. These courses will be recorded on transcripts issued by the Medical College with the code designation of "AC" indicated.

Upper Division general education courses numbered 300 to 599 are offered by the Augusta Extension, University of Georgia. These will be recorded on transcripts issued by the Medical College with the code designation "UGA" indicated.

An off-campus center of the Medical College of Georgia School of Nursing with resident faculty, is located in Atlanta on the Georgia State College campus.

Registration. Registration must be completed on the dates outlined in the academic calendar. The procedure for registration will be outlined for the accepted applicant by the Registrar on the registration dates indicated.

The academic program of each student is planned in consultation with his academic advisor or major professor.

A student may not attend classes in a course for which he is not officially registered. Auditors may attend courses with the consent of the instructor, but no academic credit shall be allowed. Auditors are subject to the same fees as regular students, and must register for courses in the same manner as all other students.

Class attendance. Regular attendance is expected in courses for which a student is registered. Excessive absence will result in disciplinary action.

Forfeiture of credit. By registering for a course for which he already has received credit by transfer or residence work, a student forfeits credit in the previous course. The final grade will be the grade on the repeated course.

Changes in course schedules. Changes in a student's schedule of courses may be made only with the approval of the Dean or Director, and the Registrar. Additions to a student's course schedule will not be allowed after the first four days of a quarter. Courses may be dropped at any time with the consent of the Dean or Director, the instructor, and the Registrar, subject to assignment of the appropriate grade by the instructor.

Non-Continuous Matriculation. Normally a student may be permitted to graduate under provisions of the catalogue in effect at the time of his first matriculation. A student may choose to graduate under the provisions of a subsequent catalogue. If he does so choose, he must meet all the provisions of the subsequent catalogue.

A student who returns to one of the Undergraduate programs, or to the School of Graduate Studies, after an absence of two or more years will be required to meet the degree provisions of the catalogue current on his return, along with such other regulations as may be in effect at that time.

Normal Course Load. The normal course load may vary with the several degree programs. Students may be required to register for a course load less than the normal course load if this action is determined to be advisable in light of the students academic standing or for other reasons. A student who in any quarter registers for less than 12 quarter hours is considered a Part-Time Student; a student who registers for at least 12 but less than 18 hours is considered a Full-Time Student; a student who registers for 18 or more hours is considered to be carrying an overload, and an additional fee shall be assessed accordingly. No student of the School of Graduate Studies, nor the undergraduate curricula, may register for more than 21 quarter hours (including audit courses) in any given academic quarter.

Withdrawal from the Medical College. No student may officially withdraw from the Medical College unless with the consent of the Dean or Director of the School, the Director of Student Affairs, the Comptroller, and the Registrar. A student who wishes to withdraw must report to the Registrar to obtain and complete the Withdrawal Form. The official records of a student who does not officially withdraw from the institution will not be released until the appropriate withdrawal procedures have been completed.

Course numbering system. The Medical College of Georgia offers courses numbered 100 to 299 to students in the Junior Division of undergraduate schools, and courses numbered 300 to 499 to students in the Senior Division of undergraduate schools.

In the Graduate School courses are numbered from 600 to 999. Certain courses are offered to Undergraduate, Graduate, and Professional students jointly. Such courses are numbered appropriately for each class and degree program.

In the School of Medicine, first year courses are numbered 500 to 599; second year courses are numbered 600 to 699; third year from 700 to 799; and fourth year from 800 to 899.

REQUIREMENTS FOR GRADUATION

Additional requirements for graduation are outlined in later sections of this Bulletin under the listings of the Medicine, Graduate School, and Undergraduate programs. The following however, apply to all baccalaureate programs offered by the Medical College of Georgia.

Recommendation by Faculty. It is implicit in the requirements for all degrees conferred by the Medical College that the faculty of each school recommend each candidate for a degree as having met all requirements for the degree to be conferred.

Transfer credit. A maximum of 95 academic quarter hours from a junior college, or 141 hours from a senior college of other educational institution, may be transferred into an undergraduate program. See also page 20, "Scholarship and Promotion".

Residence. The minimum residence requirement for baccalaureate degree is 45 quarter hours. A minimum of 180 quarter hours (excluding Physical Education) is required for a baccalaureate degree.

Examinations on the history and constitutions of the United States and Georgia. Examinations on these subjects are required of all students unless exempted by presentation of coursework credit dealing with these constitutions and histories.

SCHOLARSHIP AND PROMOTION

An undergraduate degree shall not be conferred to any person whose overall weighted grade point average (for courses in residence) is less than 2.00. Credit hours in courses with the grade of "D" or "D+" (whether by transfer or in residence) shall not exceed 20% of the total hours for any degree program. Individual curricula may establish higher standards for achievement, in which case, the highest standard shall apply.

REQUIREMENTS FOR DEGREE

The candidate for an undergraduate or graduate degree should consult with the Office of the Registrar and the Dean or Director of his school concerning completion of requirements for graduation. This should be done three quarters before the expected date of graduation. Students who fail to meet this requirement forfeit any equity in the adjustment of possible errors or omissions in their programs.

APPLICATION FOR GRADUATION

Application for graduation must be made by each candidate on a form obtainable from the Office of the Registrar. The application form should be completed during the Winter registration period, but no later than Registration at the beginning of the Spring quarter. The candidate for a degree from the Medical College of Georgia must attend the Commencement exercise at which the degree is to be conferred, unless officially excused in writing by the Registrar.

SCHOOL OF MEDICINE

ADMISSION TO THE MEDICAL CURRICULUM

The School of Medicine admits one hundred four students to the first year class annually.

Admissions policies as established by the Board of Regents of the University System of Georgia are the responsibility of the Admissions Committee, with consideration for the special requirements of the medical curriculum. The Committee is responsible for the acceptance of all students entering the first, second, or third year classes. Admission with advanced standing to the fourth year class is not permitted.

The applicant for admission to the School of Medicine is considered on the basis of academic qualifications, appraisals by college instructors, and medical school interviewers and scores on the Medical College Admission Test. Moral character, motivation, and an assessment of the applicant's ability to make the social and psychological adjustments for the successful study of medicine are evaluated by personal interviews. Interviews with faculty members are held by invitation of the Admissions Committee after review of completed applications.

Information from personal references also is considered and welcomed. However, attempts to bring undue influence on the Admissions Committee on behalf of an applicant may seriously prejudice acceptance.

Irregular Students.

Faculty members holding doctorates in basic medical or biological sciences who wish to qualify for careers in full-time academic medicine or clinical research may enroll as irregular students in special instances.

Requirements for admission in the above categories are available from the Office of the Registrar. Before final acceptance in each instance, applicants must obtain approval from the Dean for the proposed course of study.

The Medical College of Georgia assumes no responsibility for future curriculum changes which might alter such programs.

Admission with advanced standing.

Applicants in good standing in accredited American two or four-year medical schools will be considered for admission to the appropriate year of the curriculum. Details should be obtained from the Office of the Registrar.

REQUIREMENTS FOR ADMISSION

Medical College Admission Test. An applicant is required to take this examination. The test is given twice each year at most senior colleges. Information concerning it may be obtained from the premedical advisor in most colleges (or from the Psychological Corporation, 304 East 45th Street, New York).

Physical Examination. A satisfactory health report must be submitted. (See page 15).

Personal Interviews. These are required of all applicants who are accepted for admission. Interviews with faculty members are held by invitation of the Admissions Committee.

Testing. Additional examinations may be given the applicant at the time of the interviews.

References. An evaluation of the applicant is required from those persons whose names are submitted as references. In addition, an evaluation from the applicant's premedical advisor is required. Recommendations from other than required sources are discouraged.

State Medical Examiner Certification. Credentials of all accepted applicants must be approved by the State Medical Examiner (Ref. Medical Practice Act of Georgia, 84-911). Application for approval is made by the Medical College of Georgia and the applicant is notified when the fee of $2.00 is due.

At least three years of work in an approved college. The minimum requirement is 90 semester hours or 135 quarter hours. The three-year college course, in both quantity and quality, must be acceptable as the equivalent of the first three years leading to the degree of Bachelor of Science or Arts in an approved college of arts and sciences. Even though these requirements are met, preference still is given those students who have completed four years of college work.

Completion of the following college courses:

	Semester Hours	*Quarter Hours*
Chemistry (inorganic, quantiative analysis, organic; including laboratory)	16	23
Biology (general biology or equal hours of zoology or botony; laboratory required)	8	12
Physics (mechanics, heat, light, sound, electricity; including laboratory)	8	12
English (the introductory courses or their equivalent. Additional courses are recommended)	6	9
Other non-science subjects	12	18

Electives

The student is urged to develop a strong background in the humanities and social sciences, and to consult with his premedical advisor as to the specific courses recommended. Elective courses may include a modern foreign language, psychology, mathematics (analytical geometry, calculus, etc.), economics, history, sociology, philosophy, and political science. Electives should emphasize subjects other than those to be covered in the medical curriculum.

APPLICATION PROCEDURE

Application forms with instructions for completing the admissions procedure may be obtained from the Office of the Registrar, Medical College of Georgia, Augusta. Applications for the entering class of September, 1967, must be filed by December 1, 1966. No application will be acepted if received after that date. Early application is urged by the Admissions Committee.

When notified of acceptance, the applicant is required to make a deposit of $25.00 payable to the Medical College of Georgia, the sum to be applied toward payment of fees when the student enrolls. In the event of failure to enroll at the scheduled time, the deposit will be forfeited, except in the case of serious illness.

DISCIPLINE AND GENERAL REGULATIONS

Student discipline at the Medical College of Georgia is the responsibility of the President, and his administrative staff. Students will be liable for disciplinary action should they fail to act in a manner of credit to themselves, the college, and the medical profession.

The Student-Faculty Council acts as an advisory board in student and faculty relations. The Council is composed of five faculty members and nine students. The basic science and clinical departments each are represented by at least two members of the faculty who are elected by the student body for three-year terms. The Council may elect two additional faculty members for a period of one year to represent the Administration. The students are represented by the President of the Student Body and two members from each of the classes. Two student members are elected by the First Year Class to serve for one year. Two permanent members are elected by the Second Year Class at the beginning of the academic year and serve until graduation. A Chairman and a Secretary are elected by the Council for terms of one year.

HONOR SYSTEM

Every student at the Medical College of Georgia is expected to maintain a high degree of personal integrity and honor, not only during his years on the campus, but also throughout his practice as a physician. In recognition of this obligation, each student is expected to subscribe to an honor code established by the students of previous years. An Honor Court composed of eight students is nominated by student officers and selected by the Dean at the beginning of each academic year to administer the Honor Code.

A student judged guilty of an Honor Code infraction may be directed by the Court to take oral examinations in all the courses of the respective school year. A second infraction will result in dismissal from the school.

FINANCIAL ASSISTANCE

Financial aid is available for many undergraduate, graduate, and medical students. Application forms and information may be secured from the Department of Student Affairs. Among the funds from which loans may be secured are the following:

The Student Loan Fund, established in 1926 by Dr. James Russell Howell.

Eugene E. Murphey Fund, donated by Mr. Byron B. Taggert in honor of Dr. Murphey.

DeLeon Laboratories Fund, created in 1955 by Mr. Harold Palmer, president of the pharmaceutical firm.

W. K. Kellogg Foundation, the 1942 and 1943 grants of which have evolved into a permanent fund.

Carlin Alexander Fund, sponsored by the Phi Rho Sigma Wives Club in memory of a former member.

Augusta Jaycee Student Loan Fund, presented for the purpose of encouraging or securing Federal matching funds for students in the undergraduate programs.

Medical Dames Student Loan Fund, established in 1964 to make available limited assistance for married students.

Health professions student Loan Fund, made to full-time students in good standing. The maximum yearly loan is $2,000. The Medical College of Georgia Foundation participates in this program.

AMA-Guaranteed Medical Education Loans. These are a result of a cooperative effort by the American Medical Association and private enterprise. Up to a total of $10,000 may be borrowed over a seven-year period to meet education costs incurred by students, interns, and residents.

State Medical Education Board, established by a Georgia constitutional amendment. Its purpose is to grant scholarships to bona fide residents of the state to help defray tuition and other student expenses in any accredited four-year medical school in the United States. Awarded to individual students in amounts up to $5,000, they are made available in annual installments of up to $1,250. A student receiving this aid is required to sign a contract in which he agrees to repay the scholarship by providing professional medical service in a designated community of 5,000 or less population within the state. $1,000 of the scholarship, together with interest will be credited to the recipient for each year of medical practice in the approved community. Further information is available on request from:

The Secretary
State Medical Education Board
Fourth Floor
244 Washington Street, S. W.
Atlanta, Georgia

GEORGIA HIGHER EDUCATION ASSISTANCE CORPORATION

Maximum amount available to medical students is $1500 per school year. Application should be made approximately three months in advance of the time funds will be needed. Information and application forms may be obtained by writing, Georgia Higher Education Assistance Corporation, 244 Washington Street, S. W., Atlanta, Georgia.

EXTRA-CURRICULAR ACTIVITIES AND OPPORTUNITIES

Augusta is Georgia's second oldest city, founded in 1735 as a trading post. It also is one of the state's most progressive and rapidly-growing municipalities.

As the Winter Golf Capital of the World, the city is host each year to the international Masters Golf Tournament and the Women's Titleholders Tournament.

Located near the vast Clark Hill Reservoir of the Savannah River, Augusta offers exceptional recreational facilities for swimming, camping, fishing, boating, and countless other outdoor activities.

Cultural opportunities include frequent programs by the Augusta Symphony Orchestra, the Community Concert Series, the Augusta Choral Society, the Arts Series of the Medical College of Georgia, the Augusta Players, the Fort Gordon Players, and other groups.

In and near Augusta there are approximately 175 churches representing 35 religious denominations.

MEDICAL CURRICULUM

First year students participate in a series of orientation exercises prior to the beginning of classes (see Calendar, page 5). These activities are supervised by representatives of the Administration, Faculty, and Upper Classes.

The curriculum should not be considered as a series of isolated courses and subjects, but as an integrated, interrelated program of instruction in human biology, leading to the art and science of medicine.

First Year courses deal primarily with the normal structures and functions of the human body. The curriculum includes studies in gross anatomy, histology, embryology, neuroanatomy, human development, biochemistry, and physiology. Supervised laboratory work is supplemented by lectures and conferences which relate the clinical importance of the principles studied.

Courses of the Second Year introduce the students to causes and manifestations of abnormal function. The work includes microbiology, parasitology, pharmacology, and pathology. During this year, students get their first assignments in clinical medicine, receiving instruction in physical diagnosis, medicine, pediatrics, surgery, obstetrics, and psychiatry.

During the Third Year, the class is divided into small groups of students which are assigned in rotation to the Departments of Medicine, Surgery, Obstetrics, and Psychiatry and Neurology. Under supervision, the students examine patients, prepare case reports, make diagnoses, and outline indicated treatments. The clinical work is supplemented by lectures, conferences, and demonstrations. Courses in rehabilitative medicine, radiology and endocrinology are included.

In the Fourth Year, students work extensively in the wards of hospitals and are given assignments in the outpatient departments. In small groups, they rotate through nine weeks each in the Departments of Medicine, Surgery, Pediatrics, Obstetrics and Gynecology and four-and-a-half weeks in Psychiatry and elective courses.

The work and courses of the various years are described in the separate departmental listings on the following pages.

Anatomy

Chairman: GATZ

Faculty: ALLEN, BERNARD, BOWLES, MCDONALD, MCKENZIE, WELLBAND

ANM 511. Gross Anatomy. *First year.*

The human body is dissected by students working in groups of four, under the supervision of the faculty. Studies in topographical anatomy, providing the foundation for physical diagnosis, are integrated with dissection. The course includes correlated studies in radiological anatomy.

ANM 512. Histology and Embryology. *First year.*

The structure and function of cells, tissues, and organs are studied. Human developmental anatomy as related to normal and anomalous structure also is presented.

ANM 513. Neuroanatomy. *First year.*

The structure and function of the human nervous system is studied. Laboratory work includes observations of prepared sections of the brain, brain stem, and spinal cord, and the dissection of a brain.

ANM 795, 895. Elective in Gross Anatomy. *Third and fourths years; credit to be arranged.*

Consists principally of the dissection of portions of human anatomy by students working under the supervision of the faculty.

Anesthesiology

Chairman: VOLPITTO
Faculty: DEVORE, GRAMLING, C. H. MITCHELL, L. C. FREEMAN
Clinical Faculty: RUCKER, RUSHIA, A. J. WATERS, J. B. WILLIAMS, YARBROUGH

ANS 646. Principles of Anesthesiology. *Second year, second quarter; 13 hours.*

Principles of inhalation, regional, rectal and intravenous anesthesia. The pharmacology of drugs used, and cardiovascular and respiratory physiology are applied to anesthesia.

ANS 647. Elective in Anesthesiology. *Second year, one afternoon per week throughout the school year.*

Arrangements may be made for students to participate in various departmental functions.

ANS 751. Practical Anesthesiology. *Third year, one fourth of class each quarter.*

A part of "surgical technique", given in conjunction with Clinical Surgery SUR 726.

ANS 753. Elective in Anesthesiology. *Third year, 4½ weeks.*

Students choosing this elective perform assignments under supervision of the faculty.

ANS 872. Clinical Anesthesiology. *Fourth year.*

Each student spends one week in the operating room and other areas involving anesthesiology.

ANS 874. Elective in Anesthesiology. *Fourth year, 4½ weeks.*

Closely supervised work and more practical advanced instruction in anesthesia administered and patient management.

ANS 877. Anesthesiology Conference. *Fourth year.*

A weekly one-hour conference in the clinical surgery quarter.

Biochemistry

Chairman: W. K. Hall

Faculty: Behal, Briggs, Coryell, Fernandez, Harms, Holcomb, Horton, Howard, Huisman, Marston, McPherson, Nelson, Singal, Smith, Wycoff.

BCH 524. Biochemistry. *First year, 255 hours.*

A survey of the chemical composition and organization of cells and of metabolism and function. Lectures, conferences and laboratory assignments. Dr. Hall and staff.

BCH 650. Biochemical Disorders in Disease. *Second year, 52 hours.*

Lectures and conferences. Dr. Huisman.

BCH 653. Elective in Biochemistry. *Third and fourth years.*

Interested students are encouraged to investigate new biochemical problems or to participate in research already in progress.

BCH 812. Biochemical Disorders of Disease. *Fourth year, 16 hours.*

A lecture course in applied clinical biochemistry. Dr. Huisman.

Endocrinology

Chairman: Greenblatt
Faculty: Ellegood, Mahesh
Clinical Faculty: Clark, Jungck

END 732. Endocrinology. *Third year, every nine weeks, 9 hours.*

Review of endocrine problems as related to obstetrics and gynecology.

END 772. Endocrinology. *Third year, second, and third quarters. 16 hours.*

A lecture series concerning disorders and clinical management of the dysfunction of the endocrine glands.

END 815. Endocrine and Fertility Clinic. *Fourth year, twice each quarter, 12 hours.*

The study and treatment of endocrine disorders with practical demonstrations in the management of infertility.

END 816. Elective in Endocrinology. *Third and fourth years, twice each quarter, 120 hours.*

Arrangements may be made for students to observe and assist in the management of patients and perform laboratory procedures.

END 817. Weekly Seminar.

Discussions of problem cases, advances in steroid biochemistry, and progress reports on departmental research.

History of Medicine

HMD 683. History of Medicine. *Second year, 13 hours.*

Lectures on the history of the development of medicine with emphasis on trends and movements rather than a history of names and individuals.

Introduction to Medicine

IMD 641. Introduction to Clinical Medicine. *Second year, second and third quarters, 156 hours.*

Given jointly by the Departments of Medicine, Surgery, and Pediatrics. Orientation lectures and television demonstrations in the art of physical diagnosis. Lectures and demonstrations introducing basic medicine and surgery. Individual practical instruction in the art of diagnosis (history-taking and physical examination) utilizing patients.

Legal Medicine

MJP 883. Medical Jurisprudence. *Fourth year, 10 hours.*

A lecture course concerned with the relationship of medicine and medical practice and the law.

Medicine

Chairman: To be Appointed

Faculty: BAILEY, BROWN, CARTER, CHEW, EDMONDS, FINDLEY, GARDNER, GARRISON, GREENBERG, HORTON, HUDSON, LIVINGSTON, KING, MOORE, MOORES, PAYNE, RAINEY, WHITE, WITHAM, WRIGHT.

Clinical Faculty: AGOSTAS, BATTEY, BAZEMORE, BLITCH, BLOOM, BOTNICK, BROCATO, BYNE, CLARK, BUTLER, CRANSTON, CLARY, CUMMING, ERWIN, GRAY, HAIR, HAMES, HARPER, HESLIN, HOCK, KLEMANN, KNIGHT, LEE, MARTIN, MAYFIELD, MEALING, MODLIN, MONTGOMERY, MORGAN, MURPHEY, PESKIN, PHINIZY, REEVES, SHIVER, SMITH, THOMAS, VAN GIESEN, VICTOR, WALDEN, WALTERS.

MED 712. Medicine. *Third year, 9 weeks, 445 hours.*

Assignments to the wards of the Medical College hospitals. Students attend conferences and rounds, serve clinical clerkships performing complete studies on assigned patients and following their progress during hospitalization under the supervision of a preceptor.

MED 718. Elective in Medicine. *Third year, 225 hours.*

Arrangements may be made for work in the following specialties: cardiology, chest, dermatology, gastroenterology, general medicine, hematology, hypertension, infectious disease, metabolism, renal and rheumatology. Approved clinical preceptorships are available and may be served in Augusta or other areas of the state.

MED 811. Medical Clinics. *Fourth year, 135 hours.*

Attendance and participation in the following clinics: cardiology, tuberculous chest, non-tuberculous chest, gastroenterology, general medicine, hematology, hypertension, metabolism, renal and rheumatology.

MED 814. Medical Externship. *Fourth year, 225 hours.*

Work on the general medicine wards of the Medical College hospitals where students are assigned patients under supervision and act as externs.

MED 818. Elective in Medicine. *Fourth year, 225 hours.*

Elective work may be undertaken in the following areas or specialties: cardiology, chest, dermatology, gastroenterology, general medicine, hematology, hypertension, infectious diseases, metabolism, renal and rheumatology. Clinical preceptorships also are available in Augusta and other areas of the state.

Medical Microbiology

Chairman: DIENST

Faculty: BANISTER, BEHAL, DENTON, GARDNER, LEFKOWITZ, ROESEL

Clinical Faculty: CHEW, DAVIS, WHITE

MPH 634. Medical Microbiology and Helminthology. *Second year, 35 weeks, 280 hours.*

Principles of microbiology with emphasis on the organisms producing disease in man, and the mechanisms of infection and resistance. Studies of the methods for cultivation, isolation, and identification of the commoner pathogenic microorganisms. Consideration given to public health aspects of infectious diseases.

Obstetrics and Gynecology

Chairman: SCOGGIN

Faculty: BOHLER, BRYANS, MARTIN, MCDONOUGH, NELSON, O'ROURKE, TALLEDO, WILDS, ZACHERT

Clinical Faculty: BARFIELD, BOYD, BURGAMY, COLEMAN, ECHOLS, FAULKNER, GOLDBERG, HARRISON, JACKSON, NEAL, PERSALL, PRYOR, SCOGGINS, SHIRLEY, STORY, THURMOND, WATSON

OBG 661. Introduction to Obstetrics and Gynecology. *Second year, second and third quarters.*

Instruction in history-taking and physical diagnosis of the female patient. Lectures, demonstrations, and supervised practice in the wards and examining rooms.

OBG 662. Obstetrics. *Second year, third and fourth quarters, 20 hours.*

Introduction to normal reproduction in the human female. Begins with survey of basic anatomy, physiology, biochemistry, and endocrinology of reproduction. Reviews course of gestation from maternal, fetal, and placental aspects. Introduces student to clinical management of normal pregnancy.

OBG 715. Obstetrics and Gynecology. *Third year, first quarter, 16 hours.*
Important aspects of clinical gynecology and abnormal obstetrics.

OBG 716. Obstetrics and Gynecology. *Third year.*

OBG 836. Elective in Obstetrics. *Fourth year.*

Assignments under supervision to gynecologic and obstetric patients. Students do complete histories and physical examinations, care for patients in labor and delivery, and participate in operative procedures. Introduction to programmed instruction. Other departments participating in clerkship instruction are Pathology, Endocrinology, and Pediatrics. Clerkship rotation includes time spent at University Hospital in Obstetrics & Gynecology.

OBG 841. Obstetrics and Gynecology. *Fourth year, 18 hours.*

Combined with Pediatrics PED 841. Correlation of obstetric care and newborn infant problems, and selected aspects in care of gynecologic patients.

Pathology

Chairman: STODDARD

Faculty: BARTON, CONNOR, OGDEN, PETERS, PUCHTLER, RICE, SHEPEARD, STERN, TEABEAUT, THORNTON

Clinical Faculty: HAND, HASTINGS, HOBBS, IGNEN, MITCHENER, D. F. MULLINS, W. B. MULLINS, MURPHY

PTH 622. General Pathology and Human Disease. *Second year, first, second, and third quarters, 363 hours.*

Part I: Introduction to general pathology. Part II: Case teaching of human disease in small seminar groups. Part III: Clinical pathology exercises. Students participate in current autopsies.

PTH 623. Clinical Pathology Conference. *Second, third and fourth years, each quarter, 33 hours.*

In cooperation with the clinical departments, conferences are held at which histories and physical examinations are analyzed and compared with pathological findings.

PTH 767. Surgical Pathology. *Third and fourth years, once weekly, 30 hours.*

Pediatrics

Chairman: HOLMAN

Faculty: ANDERSON, DUNAWAY, FOLGER, HAHN, HOLLOWELL, LIPSITZ, O'REAR, THORNTON

Clinical Faculty: BAILEY, BELLHOUSE, BENNETT, CLEMENTS, DUNAGAN, ELLINGTON, GREEN, HICKS, MASSENGALE, MCGAHEE, OWINGS, PURSLEY, RABORN, SCHARFF, SINGER, TANENBAUM, THEVAOS, WATSON, AND WILKES

PED 546. Human Development. *First year, 48 hours.*

Given jointly with Psychiatry PSY 546. A review of human development in the physical, emotional, social, and cultural spheres.

PED 715. Pediatrics. *Third year, 34 hours.*

Combined with Obstetrics and Gynecology OBG 715. Small group discussions and whole class exercises concerning the physiology of the newborn.

PED 717. Principles of Pediatrics. *Third year, 15 hours.*

Conference-type discussions of patients, illustrating basic principles of pediatrics.

PED 792. Elective in Pediatrics. *Third year.*

PED 841. Pediatrics. *Fourth year, 425 hours.*

Students serve clinical clerkships on the pediatric wards of the Medical College hospital. They spend a period of observation at Gracewood State School and Hospital and at the pediatric department of Fort Gordon, and have an opportunity to serve in the offices of pediatric practitioners in a preceptoral relationship. Combined with Obstetrics and Gynecology OBG 841.

PED 845. Elective in Pediatrics. *Fourth year.*

Pharmacology

Chairman: SUTHERLAND

Faculty: AHLQUIST, GEBER, JERRAM, RILEY

PHM 611. Pharmacology and Toxicology. *Second year, first quarter, 158 hours.*

The study of drug actions and their mechanisms. Includes work in pharmacodynamics, pharmocotherapeutics, toxicology, posology, and prescription writing. Opportunities are available for individual research projects.

Physiology

Chairman: DOW

Faculty: BAKER, BOHLER, DAVIS, ELLISON, O'BRIEN, REICHARD, REMINGTON

PHY 535. Physiology. *First year, 280 hours.*

Introductory and applied physiology, with instruction in the theoretical and practical considerations of importance to the medical student.

Psychiatry and Neurology

Chairman: E. J. MCCRANIE

Faculty: BURROUGHS, COLLINGS, DEAN, KUGLAR, LONGLEY, MARSHALL, MAUGHON, MCLELLAND, POSTON, RICE, SELL, SISSON, STEWART, WIGGINS

Clinical Faculty: CLECKLEY, CRAIG, DUNN, HUTCHINSON, JOHNSON, M. L. MCCRANIE, MCDONALD, MOSS, ROBINSON, SIPPRELLE, SMITH, THIGPEN

PSY 546. Psychiatry and Human Development. *First year, 48 hours.*

Introduction to the relationship of physical, environmental and behavioral factors in the development of children and adults. Given jointly with Pediatrics PED 546.

PSY 670. Introduction to Psychiatry. *Second year, 36 hours.*

Studies of the psychodynamics of emotional illness. Discussions and demonstrations of the diagnostic syndromes.

PSY 791. Clinical Clerkship. *Third year, 4½ weeks.*

Closely supervised work with hospitalized psychiatric patients. Instruction and experience in interviewing, history-taking, and treatment methods.

PSY 793. Elective in Psychiatry. *Third year, 4½ weeks.*

PSY 853. Clinical Clerkship. *Fourth year, 4½ weeks.*

Clinical work with outpatients and consultations from other services with special emphasis on psychosomatic problems and child psychiatry. Combined with Neurology NEU 853.

PSY 833. Elective in Psychiatry.

NEU 686. Neurology. *Second year, 6 hours.*

Demonstrations of the techniques of neurologic examinations. Presentations of clinical samples of nervous system disorders.

NEU 742. Neurology. *Third year, 12 hours.*

Didactic presentations including clinical syndromes of disorders of the peripheral and central nervous system.

NEU 743. Neurology. *Third year, 8 hours.*

Supervised experience in neurologic examinations while in Psychiatry Clinical Clerkship.

NEU 744. Elective in Neurology. *Third year, 4½ weeks.*

NEU 853. Neurology. *Fourth year, 4½ weeks.*

Emphasis on individual student examinations, presentations, and evaluations. Includes conferences in neuropathology, neuroradiology, and neuro-ophthalmology. Combined with Psychiatry PSY 853.

NEU 855. Elective in Neurology. *Fourth year, 4½ weeks.*

Radiology

Chairman: M. BROWN
Faculty: CLAY, DICK, HALL, POOL, REICHARD
Clinical Faculty: S. W. BROWN, LEVY, ROBERTS

RAD 561. Roentgen Anatomy. *First year, 11 hours.*

Seminars correlated with Anatomy. Regional anatomy demonstrated with roentgenograms.

RAD 761. Diagnostic Radiology. *Third year, 4 hours.*

Basic principles of radiographic diagnostic procedures and their interpretation.

RAD 762 Effects of Ionizing Radiations on Biological Systems. *Third year, 2 hours.*

Introduction to radiobiology and radiation hazards and protection.

RAD 763. Radiation Therapy. *Third year, 3 hours.*

Survey of the use of the various forms of ironizing radiation in the treatment of disease processes.

RAD 769. Nuclear Medicine. *Third year, 3 hours.*

An introduction to the principles of nuclear medicine.

RAD 861. Roentgenological Interpretation. *Fourth year, 10 hours.*

Film analysis by individuals and small groups of students under the supervision of the faculty.

RAD 862. Nuclear Medicine. *Fourth year, 2 hours.*

Continuation of Course RAD 769.

RAD 863. Radiotherapy, Radiation Physics, and Radiobiology. *Fourth year, 4 hours.*

Continuation of courses RAD 762 and 763.

RAD 764, 864. Elective in Radiology. *Third or fourth year.*

Assignments in the department under the supervision of the full-time faculty.

RAD 765, 865. Elective in Radiology. *Third or fourth year.*

Preceptorship under members of the clinical faculty.

RAD 766, 866. Elective in Radiotherapy and Radioisotopes. *Third or fourth year.*

By special arrangement with Dr. Dick.

RAD 669, 769, 869. Elective in Radiobiology. *Second, third, or fourth year.*

By special arrangement with Dr. Reichard.

Surgery

Chairman: MORETZ

Faculty: ALLEN, ANABTAWI, BLIVEN, BRACKNEY, CHAVEZ, CORNETT, EDMONDSON, L. T. ELLISON, R. G. ELLISON, ENGLER, FAIR, HARKESS, HUMPHRIES, JENNINGS, MCPHERSON, PARRISH, RHODE, RINKER, STONE, THOMAS, VAUGHAN, WITHERINGTON, WRAY, YEH

Clinical Faculty: BAILEY, A. M. BATTEY, W. W. BATTEY, BOWEN, BRIDGES, CALDWELL, CARRINGTON, CARSWELL, CHANDLER, CORPE, DANIEL, EVERETT, FLANAGIN, FREEMAN, GALLOWAY, GOODWIN, HUMMEL, JONES, KAY, KELLY, LEE, LUCAS, MANGANIELLO, MATTHEWS, MCINNIS, MCKNIGHT, MCRAE, MULHERIN, NICHOLS, OWINGS, PERKINS, PINSON, RHODES, ROBERTSON, ROULE, SHEPHERT, SHERMAN, SULLIVAN, WHELCHEL, C. A. WHITE, W. O. WHITE, WILLIAMS.

SUR 721. Principles of Surgery. *Third year.*

A series of lectures concerning pertinent areas in general surgery, neurosurgery, ophthalmology, orthopedics, otorhinolaryngology, thoracic surgery, and urology.

SUR 726. Clinical Surgery. *Third year, one quarter.*

A basic course in which students are assigned to the Medical College's teaching hospital, and to either the University Hospital or the Veterans Administration Hospital. Students are assigned patients in general surgery and in thoracic surgery for total patient care participation, including complete write-ups and participation in operative procedures. They take part in ward rounds, conferences, tumor conferences, journal club, seminars and informal discussions. Student activities involve both inpatients and outpatients. The course includes "Surgical Technique", an exercise in which students perform standard operations on anesthetized animals.

SUR 821. Clinical Surgery. *Fourth year, one quarter.*

Divided into one week each in Neurosurgery, Ophthalmology, Orthopedics, Thoracic Surgery and Urology and Emergency Department (University Hospital), with an elective additional week in either Orthopedics or Urology and in either Neurosurgery or Thoracic Surgery. An additional period of this quarter is spent in the Department of Anesthesiology. During these periods very small groups of students (two or three) work closely with the house staff and faculty in all phases of the care of inpatients and outpatients of the various divisions of Surgery.

SUR 824. Electives in General Surgery. *Third and fourth years.*

1. Medical College teaching hospital (Eugene Talmadge Memorial Hospital). Time devoted to the general field or to a specific area desired by the student. Two students each period, under supervision of Dr. Moretz and staff.

2. Veterans Administration Hospital. Two students each period. Work on wards and in the operating room under the supervision of Dr. Jennings and staff.

3. Surgeons in private practice. One student each period may work with an approved surgeon in his private practice (office, operating room, and hospital). With few exceptions the surgeon must be on the clinical faculty. Individual arrangements must be made through both Dr. Moretz and the clinical surgeon involved.

4. Experimental Surgery Laboratory. Available to two students each elective period. Each will work on a project either of his own choosing or one already in progress with a member of the surgery staff. This may be arranged with a staff member closely allied to the field in which the student wishes to work.

SUR 825. Electives in Neurologic Surgery. *Fourth year.*

One or two students may participate in all functions of the Division of Neurosurgery or, if preferred, they may work on a short experimental project in the Research Laboratory. Individual arrangements should be made with Dr. Marshall B. Allen.

SUR 826. Electives in Ophthalmology. *Fourth year.*

One or two students each four week period who participate in all the functions of the Division of Orthopedics. Individual arrangements should be made with Dr. John R. Fair.

SUR 827. Electives in Orthopedics. *Fourth year.*

Two students each four week period. The program is organized individually to fit the student, or he may participate in the various functions of the Division of Orthopedics. Individual arrangements should be made with Dr. Floyd E. Bliven, Jr.

SUR 828. Electives in Thoracic Surgery. *Fourth year.*

One or two students each four week period who participate in the functions of the Division of Thoracic Surgery with Dr. Robert G. Ellison and staff.

SUR 829. Electives in Urology. *Fourth year.*

One or two students each four week period. The program is organized individually to fit the student. Dr. J. R. Rinker and staff.

SPECIAL PROGRAMS

Guest Lecturers

Throughout the year, distinguished physicians and scientists from other schools and from overseas visit the various departments of the Medical College of Georgia and participate in the departmental teaching programs.

Distinguished lecturers sponsored by the Professional Research Fund of the Medical Research Foundation of Georgia address the whole school each year.

In addition, the following special lectureships are held: (1) The Aaron Brown Memorial Lecture, sponsored by Phi Delta Epsilon Fraternity; (2) The Alpha Omega Alpha Lecture, sponsored by the honor fraternity; (3) The Sydenstricker Lecture, in honor of the late Dr. Virgil P. Sydenstricker, a distinguished member of the faculty for many years, sponsored by the Student American Medical Association.

Medical Education for National Defense

Coordinator: J. W. HARKESS.

The Medical College of Georgia participates in this program, which supports instruction in all aspects of health problems having to do with national defense and community disasters.

Research Fellowships

The Medical College of Georgia has an extensive summer research fellowship program in which students work closely with faculty investigators on specific problems. The program is administered through the Office of the Associate Dean.

This is an elective, but important, component of the students' educational experience, allowing them to participate in research and to develop an understanding of the methods, philosophies and problems involved.

Each Spring, selected papers are presented at Student Research Day exercises. Prizes are awarded, and the best papers selected for presentation at national meetings.

SCHOLARSHIP AND PROMOTION

Promotion of students from one class to the next is dependent upon the satisfactory completion of each year's work as determined by the college's Promotion Boards which meet at the end of the academic year. Promotions are considered on the basis of recommendations by individual instructors, on department evaluations, and on students' total records.

The Promotion Boards will determine whether a student may repeat courses or assigned work, may be re-examined in specified subjects, may be permitted to repeat the year, or may be required to withdraw from the study of medicine. Decisions of the Promotion Boards are final, subject to appeal as specified by the Board of Regents of the University System.

The faculty has the obligation and right to determine the methods of evaluation by performance or by examination, and to evaluate each student individually. Comprehensive oral examinations may be scheduled at the end of the second and fourth years on the advice of the Committee on Medical Education.

REQUIREMENTS FOR GRADUATION

Recommendations for graduation from the School of Medicine are made by the faculty as a whole.

The Medical College of Georgia awards the degree of Doctor of Medicine only to those candidates for graduation who are at least 21 years of age. The Promotion Board must be satisfied that the candidate acceptably has completed four years of medical study in accredited institutions, and that he will be a credit to the medical profession.

At least his final two years of study must have been at this school.

The college reserves the right to require one year of internship before awarding the degree of Doctor of Medicine to any student.

ALPHA OMEGA ALPHA

A chapter of this honorary scholastic fraternity in medicine was established at the Medical College of Georgia in 1926. Each year, students of the Junior and Senior Classes are nominated on the basis of academic excellence, and elections are held by active members of the chapter.

POSTDOCTORAL TRAINING PROGRAMS

The Medical College of Georgia has internship and residency programs which have been approved by the Council on Medical Education and Hospitals of the American Medical Association. The teaching hospital of the college (Eugene Talmadge Memorial Hospital) is the parent hospital for these programs, but integration and/or affiliation with the University Hospital, Augusta, Georgia; the Veterans Administration Hospital, Augusta, Georgia; Gracewood Hospital, Augusta, Georgia; Battey State Hospital, Rome, Georgia; and the Macon Hospital, Macon, Georgia; may be included. A brief outline of the various training programs is given below. Applicants seeking intern or residency training may apply either to the departmental chairman or to Dr. Rufus F. Payne, Superintendent, Eugene Talmadge Memorial Hospital.

Anesthesiology. Prerequisite: a minimum of one year internship. A two or three year residency training is offered all in the teaching hospital. The two year program is basically clinical training in Anesthesiology. The three year program offers in addition a total of one year of variable time on electives such as cardiology, cardiopulmonary laboratory, pharmacology, physiology, anatomy, etc. If the resident desires, he may spend part of the entire year in research activities. *Dr. Perry P. Volpitto.*

Internal Medicine. A straight medical internship which allows an elective period and emergency room experience is offered. There also is a three year residency program integrated with the University Hospital and the Veterans Administration Hospital. One year of internship is prerequisite to entering the residency. Fellowships are available in cardiology, cardiovascular research, hematology, infectious disease, metabolism, and other areas. Teaching rounds and conferences are held daily for house officers and students. *Dr. Thomas Findley.*

Obstetrics and Gynecology. A four year residency program is offered. Residents spend a minimum of three years (18 months in obstetrics and 18 months in gynecology) in the department with progressive responsibility each year that fulfills the requirements for Board eligibility. One year may be spent outside the department and might include three-month rotations through urology, endocrinology, medicine, general surgery, pathology and research. The program is academically oriented and designed to prepare the resident for clinical practice. Residents are expected to participate in student teaching and assist on research projects. The residency program rotations include both the teaching hospital and the University Hospital. *Dr. William A. Scoggin.*

Pathology. The training program offers one year of internship and five years of residency. The resident physician participates in research, the student teaching program, and in the department's autopsy, surgical, pathological and clinical pathological services. One to three years may be spent in full-time research. Three fellowships in pathology are supported by a research training grant from the National Institute of Health. Places are available to persons preparing for academic pathology, the practice of pathology, and to those who may desire a year or more of training in pathology in preparation for another discipline. *Dr. Leland D. Stoddard.*

Pediatrics. A straight internship is offered. The residency program consists of two years, the second year being affiliated with the University Hospital. A third year residency is available if desired. One year of internship is a prerequisite. Fellowships for work or research in special areas may be arranged. *Dr. Gerald H. Holman.*

Psychiatry and Neurology. The Department has a fully approved three-year residency program in psychiatry. Detailed information about the program may be obtained on request. *Dr. E. James McCraine.*

Radiology. A three-year residency program is offered for which a year of internship is prerequisite. *Dr. Mark D. Brown.*

Surgery. Six mixed surgical internships are offered in the teaching hospital. Each intern may elect a schedule fitting his desires within limits: 6-8 months on surgery (which may include Emergency Department, and 1-2 months on a surgical sub-specialty); and a total of 4-6 months on medicine, pediatrics or pathology, or a combination of two of these.

Residencies:

General Surgery. An integrated program including the teaching hospital, University Hospital, and the Veterans Administration Hospital. This program is 4, 4½, or 5 years in length, with prerequisite of one year internship. There is graduated responsibility with a wide range of patient problems. 10 to 12 first year residents, and 4 to 6 residents at each more advanced level. Not pyramidal. *Dr. William H. Moretz.*

Neurosurgery. A five-year program with prerequisite of one year internship and one year general surgery residency or one year straight surgical internship, 5 residents. Residents serve in the teaching hospital, University Hospital, or Veterans Administration Hospital. *Dr. Marshall B. Allen.*

Ophthalmoloyg. A three-year program with one year internship prerequisite. Serve primarily in the teaching hospital with additional duties in University Hospital clinic and Veterans Administration Hospital. *Dr. John R. Fair.*

Othopedic Surgery. A three-year program. Prerequisites include a year of internship and one year of general surgery residency training. Primarily serve in the teaching hospital with some participation in University Hospital and Veterans Administration Hospital. Six residents, two at each residency level. *Dr. Floyd E. Bliven, Jr.*

Thoracic Surgery. A two or three year program. Prerequisites include internship and four years of general surgery residency (with chief residency). Primarily in teaching hospital with rotations through Battey State Hospital, Rome, Georgia, and Veterans Administration Hospital, Augusta, Georgia. Two or three residents. *Dr. Robert G. Ellison.*

Urology. A three-year program with prerequisites of one year internship and one year in a field basic to urology (usually a year in general surgery). Serve in the teaching hospital. Three to four residents. *Dr. J. Robert Rinker.*

CONTINUING EDUCATION

The objective of continuing education is to preserve and increase professional knowledge and competence throughout the entire career of professional health workers. The Department of Continuing Education in close cooperation with other departments at the Medical College has the responsibility for developing and promoting educational activities to assist professional health workers in maintenance and further development of their skills.

Types of courses

Campus Symposia. Numerous courses lasting from one to five days are presented each year.

Circuit Courses. In several selected cities throughout Georgia a series of one-day medical symposia are presented each year.

Intermittent Courses. Each session of these courses usually lasts a few hours, and sessions are held at specified times over a period of months.

Special Technic Workshops. Workshops in laboratory, diagnostic, and therapeutic procedures offer enrollees an opportunity to obtain practical experience.

Clinical Traineeships. Experience in wards or laboratories for periods of one week or longer is offered by special arrangement with the chairman of the department concerned and with the Department of Continuing Education.

Program Announcements

Prior to each course brochures describing the topics, faculty, meeting place, and time, and registration fees are mailed to the group of professional health workers for whom the course was developed.

Credits

Instruction presented by this department is not designed to give credit toward specialty qualification or academic degrees.

Attention is given to the requirements of the American Academy of General Practice, and attendance at most courses is accepted for credit by the Academy.

Fees

The enrollment fees for continuing education courses are listed for each course separately and are based on guest faculty participation, hours of instruction, and equipment required.

Residents, interns, medical students, and Medical College of Georgia faculty may attend most courses without fees. Certain courses are restricted and have limited enrollment.

SCHOOL OF GRADUATE STUDIES

A graduate program leading to the Master of Science degree was established at the Medical College of Georgia in 1951. Since that time the program has been broadened in scope to include work toward the degree of Doctor of Philosophy as well as Master's degrees in the Basic Health Sciences. In 1962 the graduate program was constituted a school of graduate study, administered by a director and consisting of a graduate council and a graduate faculty.

OBJECTIVES

The objective of the School of Graduate Studies is to train persons at the graduate level to meet the needs of the rapidly expanding health and related professions. It offers the superior student an opportunity to realize the full extent of his capabilities and to gain the intimate acquaintanceship with the fundamental concepts of his field that will enable him to achieve the highest degree of professional competence.

DEGREES

The Medical College of Georgia is authorized by the Board of Regents of the University System of Georgia to grant advanced general and professional degrees through its School of Graduate Studies.

Doctor of Philosophy. This advanced general degree is the highest in course conferred by the Medical College of Georgia. It is a research degree and is not conferred solely as a result of a prescribed period of study, nor will it be conferred upon the completion of any definite amount of work described in advance. Rather, it will be conferred in recognition of proficiency in research, breadth and soundness of scholarship, and thoroughness of acquaintance with a specific field of knowledge as determined by the Graduate Faculty. Evidence of such attainment must be provided through the passing of such written and oral examinations as may be required and through the presentation of an acceptable dissertation based upon independent research. This degree will be conferred on candidates who have met the requirements for it in the fields of Anatomy, Biochemistry, Endocrinology, Microbiology, Pharmacology, and Physiology. There is also an interdisciplinary Ph.D. program for those students having interests in what are often designated as borderline fields in the Basic Health Sciences.

Master of Science. This advanced general degree is a research degree and will be conferred on candidates who have met requirements for it in the fields of Anatomy, Biochemistry, Endocrinology, Microbiology, Pharmacology and Physiology.

Master of Science in Medical Illustration. This advanced professional degree will be conferred on candidates who have met requirements for it in the field of Medical Illustration.

Master of Science in Nursing. This advanced professional degree will be conferred on candidates who have met requirements for it in the field of Nursing.

ADMISSION REQUIREMENTS

The following are required of each applicant for admission to the School of Graduate Studies:

The Doctor of Philosophy and Master of Science degree programs:

1. A bachelor's degree or equivalent from an accredited college or university.
2. Adequate preparation in the field of proposed graduate study, as determined by the graduate faculty.
3. Rank in upper half of class in undergraduate work.
4. Satisfactory aptitude and advanced tests scores on the Graduate Record Examination.

5. A satisfactory physical examination.

The Master of Science in Medical Illustration degree program:

1. A Bachelor of Science in Medical Illustration degree conferred by the Medical College of Georgia or an equivalent degree, as determined by the Department of Medical Illustration.
2. Adequate preparation in the field of Medical Illustration, as determined by the graduate faculty.
3. A satisfactory admission examination.
4. A satisfactory physical examination.

The Master of Science in Nursing degree program:

1. A Bachelor of Science in Nursing degree or its equivalent from an accredited college or university having a program comparable to the Bachelor of Science in Nursing program of the Medical College of Georgia.
2. Adequate preparation in the field of proposed graduate study, as determined by the graduate faculty.
3. Evidence of current registration or licensure to practice nursing in one or more states.
4. Rank in the upper half of class in undergraduate work.
5. Satisfactory Aptitude and Advanced Tests scores on the Graduate Record Examination and National League for Nursing Graduate Nurse Examination.
6. A satisfactory physical examination.

Selection of students for admission is subject finally to the discretion of the Director of the School of Graduate Studies and Registrar.

A student's continued enrollment in the School of Graduate Studies is subject to the decision by the Director and other designated officers that academic grades and progress are satisfactory, that rules of the Medical College are being complied with and that the best interests of the school and of other students are being served.

An applicant's registration and class attendance are considered an agreement to comply with the rules and regulations of the Medical College as published in the Bulletin and other official publications of the Medical College of Georgia during the student's continued enrollment.

APPLICATION PROCEDURE

Instructions for making application for admission to the School of Graduate Studies are supplied with application materials which are available upon request.

REGISTRATION

All students begin registration at the Graduate Studies office. Prior to completion of registration at the Registrar's office, the academic program of the student is planned in consultation with the student's major professor or with the student's major department chairman before selection of a major professor. Changes in registration are recognized and valid only if they have been made with the consent of the major professor, the graduate Director, and the Registrar.

Auditors may take graduate courses but no academic credit is allowed. Auditors pay usual tuition and laboratory fees.

FEES AND EXPENSES

Information concerning tuition and other fees will be found on pages 12 and 13 of this Bulletin.

SCHOLASTIC REGULATIONS

Classification of Graduate Students. Students may be admitted to the School of Graduate Studies under any one of the following classifications:

1. Prospective candidate for a degree. A student who qualifies for admission to full graduate standing as a prospective degree candidate and who may become a degree candidate upon the satisfactory completion of candidacy requirements.
2. Non-degree candidates. A student who meets the requirements for admission to graduate study and takes graduate courses without becoming a candidate for a degree at this school.
3. Unclassified post-graduate. A student conditionally admitted for graduate study, who later may be admitted to prospective candidacy on the basis of examinations and/or course work designed to indicate qualification for full graduate standing.

Only those students who are formally admitted to the School of Graduate Studies will be eligible to register for graduate courses.

Examinations. All students registered in the 600-700 courses shall take an examination at the end of the respective courses. Examinations in the 800 and 900 courses are given at the discretion of the instructor.

No re-examinations are allowed in the individual courses. Re-examination in the Comprehensive, Preliminary, or Final Oral Examinations may be allowed if recommended by the majority of the examining committee *and if* the graduate Director concurs.

Grades and Normal Work Load. The grading system described on page 17 of this Bulletin is used by the School of Graduate Studies.

All credit is expressed in quarter hours. The normal graduate work load is twelve to fifteen quarter hours per quarter. An academic year is composed of three quarters. Only those courses for which a grade of 2 or better is received may be credited toward satisfaction of any degree requirement. Students who receive the grade "Incomplete" (In), will have one quarter in which to complete the work for the course and remove this grade or it will be changed to "Unsatisfactory" (O), automatically at the end of the first quarter following receipt of the "In". Continuation of study in good standing in the School of Graduate Studies is contingent on the maintenance of a minimum overall weighted grade point average of 2.8. A student whose grade point average falls short of 2.8 will be placed on academic probation, in which case the student must maintain an overall weighted grade point average of 3.2 for two consecutive quarters, in order to remove the probation. After three quarters of academic probation a student will be dismissed and will not be allowed to continue graduate study at the Medical College of Georgia.

Graduate Credit. Graduate students may receive credit:

1. For all graduate courses numbered 800-899 which are advanced courses.
2. For all courses numbered 900-930 which includes seminars (901, 902, 903), problems (921), and research (930) for thesis or dissertation.
3. For certain courses in the 600-700 group which serve as general courses and prerequisites for the other departmental graduate courses. Not more than one-third of the courses offered for the Doctor of Philosophy degree may be 600-700 courses and not more than two-thirds of the courses offered for the Master of Science degree may be 600-700 courses, except as noted for the Master of Science (Plan B) degree.

In no instance may a graduate student apply toward a graduate degree credit(s) previously used to fulfill requirements for a professional degree, i.e., M.D., D.D.S., D.M.D., D.V.M., or similar degrees.

Acceptance of Graduate Credit by Transfer. Transfer of graduate credit is never automatic; any credits transferred do not reduce the residence requirement for any advanced degree.

In the case of a prospective Ph.D. candidate entering the School of Graduate Studies with a Master's degree from another institution, the candidate shall pass an examination on his major subject and thesis during the first quarter of residence if credit for any pertinent portion of the Master's coursework (30 quarter hours maximum usually allowed) is to be applied to the Ph.D. The transfer of any coursework beyond the Master's level is a matter for negotiation between the student, his major department, and the graduate Director. In general, no more than 60 quarter hours may be transferred toward the Ph.D., under any circumstances.

At the discretion of the graduate Director and the faculty of the major department, up to ten quarter hours credit toward a Master's degree may be transferred.

In all cases any graduate coursework to be transferred must have the final approval of the graduate Director.

Major Professor. A member of the graduate faculty will be assigned to serve as major professor for each student applying for a Doctor of Philosophy or a Master's degree.

Dissertation Committees, Thesis Committees, and Graphic Project Committees. A Dissertation Committee, composed of a student's major professor (who will serve as chairman) and four other faculty members, guides a student in planning his program of study and research proposed as the basis for a dissertation for the Doctor of Philosophy degree. When a student submits his program of study (coursework outline), this committee will review it and indicate what modifications, if any, are necessary. Similarly, this committee will review and indicate what modifications, if any, are necessary, when the student submits his plan of research for a dissertation. This committee must approve the program of study and the research plan before they may be submitted to the graduate Director.

The "readers" copies of the student's dissertation will be distributed to the members of this committee, who will inform the graduate Director whether or not they find it acceptable for the purpose of administering the Final Oral Examination for the Ph.D. degree. This committee will have the responsibility of administering the Final Oral Examination.

A Thesis, Graphic Project, or Master's Paper Committee composed of a student's major professor (who will serve as chairman) and four other faculty members, guides a student in planning his program of study and research proposed as the basis for a thesis, graphic project, or master's paper for the Master's degree. The responsibilities of this committee are analagous to the responsibilities of the Dissertation Committee.

Residence and Time Limit. The minimum requirement for the Doctor of Philosophy degree is three full academic years beyond the Bachelor's degree. It cannot be satisfied through summer work alone. At least three full consecutive quarters immediately prior to completion of degree requirements must be spent in residence on the campus. If the student has part-time duties (employment or a teaching assistantship), the residence requirements will be increased accordingly to provide the equivalent of three quarters of full-time study in residence. All coursework and other requirements for the Doctor of Philosophy degree except the Final Oral Examination must be completed within six consecutive calendar years.

The minimum residence requirement for all Master's degrees is one full academic year. All work credited toward a Master's degree must be completed within five consecutive calendar years.

FELLOWSHIPS, TRAINEESHIPS, ASSISTANTSHIPS

The fellowships and assistantships offered by the School of Graduate Studies of the Medical College of Georgia are listed below. Further information concerning them is available from the Graduate Studies office.

Medical College of Georgia Graduate Fellowships: These carry stipends of $2800-$3400 per year and are awarded to outstanding students. Holders of these fellowships are required to enroll for full-time graduate study.

National Defense Education Act Graduate Fellowships: These carry a stipend of $2400-$2800 per year plus a dependency allowance and provide tuition and other required matriculation fees.

National Science Foundation Graduate Traineeships: These carry a stipend of $2400-$2800 per year plus a dependency allowance and provide tuition and other required matriculation fees.

National Institutes of Health Graduate Traineeships: These carry a stipend of $2400-$3000 per year and provide tuition and other required fees.

Graduate Teaching Assistantships: These carry a stipend of $2600-$3000 per year plus certain other benefits, and require one-third to one-half of the student's time in laboratory preparation or instruction.

Graduate Research Assistantships: The stipend range is from $2400-$3000 per year and certain other benefits. A minimum of one-third time in service is required.

DEGREE REQUIREMENTS

Doctor of Philosophy

1. **Graduate Study:** Three full years of graduate study beyond the Bachelor's degree is required. In general, ninety quarter hours of graduate coursework are required; a minimum of forty-five quarter hours must be allocated to advanced graduate coursework (800 series) in or related to the major field.
2. **Residence:** A minimum of three consecutive quarters of full-time study or the equivalent in residence on this campus is required.
3. **Program of Study and Research Proposal:** A program of study for the Ph.D. and a research plan proposed as the basis for a dissertation which has been approved by the student's Dissertation Committee and the graduate Director is required.
4. **Foreign Languages:** Reading knowledge of two foreign languages is required. French, German, English, and Russian are recommended. Another language may be substituted if it has greater relevance to the candidate's program of study, but such substitution must be recommended by the major professor and the graduate Director. The native language of the candidate may not be used to fulfill a language requirement.
5. **Preliminary Examinations:** These examinations are rigid and comprehensive tests of a student's scholarly competence and knowledge, of his acquaintance with the scholarship in his field, and of his powers of bibliographical criticism. Satisfactory performance on two written preliminary examinations, one covering the major field and one covering the minor field is required; additional oral examinations may be required. These examinations are prepared and administered by committees appointed by the graduate Director who serves as an *ex officio* and voting member of each major preliminary examination committee. A student is eligible to take these examinations when he has completed two-thirds of his coursework, received approval for his research proposal, and passed the language examinations. In the event of failure these examinations may be taken only once more, after not less than six months of further study, if recommended by a majority of the examining committee and if the graduate Director concurs.
6. **Admission to Candidacy for the Doctor of Philosophy Degree:** Students are eligible for admission to candidacy for this degree by the Director of the School of Graduate Studies when they have met requirements 3, 4, and 5 for this degree. The student may take various courses after admission to the graduate school, but there is no commitment that these courses will be credited toward a degree until a student is admitted to candidacy for an advanced degree. A student must be eligible for candidacy for the Ph.D. at least three quarters before the proposed graduation date.
7. **Application for graduation:** Each candidate for a graduate degree must apply for graduation and pay the appropriate diploma fee.

8. **Dissertation:** A dissertation based on original investigation which gives evidence of independent thinking, scholarly ability, critical judgment, and indicates familiarity with research methods and techniques is required. Its conclusions must be logical, its literary form must be acceptable, and its contribution to knowledge should merit publication. Directions for preparation of the dissertation are available in the Graduate Studies office. At least four weeks before the proposed date of graduation, three typewritten copies of the completed dissertation must be submitted to the School of Graduate Studies. The Dissertation Committee will read the dissertation and notify the graduate Director whether they find it acceptable for the purpose of examining the student on the dissertation.
9. **Final Oral Examination:** Satisfactory performance on the Final Oral Examination, which is based on primarily the dissertation and the specific field of the program of study is required. It also is an examination to ascertain the student's mastery of his chosen discipline and thoroughness of acquaintance with the field of knowledge that constitutes his major subject. This examination is open to the public and all members of the Graduate Faculty are invited to attend. After a successful Final Oral Examination, three final copies of the dissertation must be deposited with the School of Graduate Studies. Each copy must bear the approval signature of the major professor (chairman of the Dissertation Committee) and the graduate Director.
10. Satisfactory completion of any required courses and fulfillment of any additional requirements of the student's major department or the institution.

Master of Science (Plan A)

1. **Graduate Study:** Forty-five quarter hours of graduate study beyond the Bachelor's degree is required. A minimum of thirty quarter hours must be allocated to graduate coursework in or related to the major field.
2. **Residence:** One full academic year in residence is required.
3. **Program of Study and Research Proposal:** A program of study and a research plan proposed as a basis of a thesis, which has been approved by the Thesis Committee and the graduate Director is required.
4. **Foreign Language:** Reading knowledge of one foreign language is required. French, German, English, and Russian are recommended. Another language may be substituted if it has greater relevance to the candidate's program of study, but such substitution must be recommended by the major professor and approved by the graduate Director. The native language of the prospective candidate may not be used to fulfill a language requirement.
5. **Admission to Candidacy for the Master of Science Degree:** Students are eligible for admission to candidacy for this degree by the Director of the School of Graduate Studies when they have met requirements 3 and 4 for this degree. There is no commitment that courses will be credited toward a degree until the student is accepted as a candidate for a degree. Requirements for candidacy eligibility must be completed at least one quarter before the proposed graduation date.
6. **Comprehensive Examination:** Satisfactory performance on a comprehensive examination covering the major and minor fields of a student is required. This examination must be passed at least one quarter before the proposed date of graduation; it may be written, oral, or both.
7. **Application for Graduation:** Each candidate for a graduate degree must apply for graduation and pay the appropriate diploma fee.
8. **Thesis:** Three reader's copies of the thesis must be submitted to the School of Graduate Studies not later than three weeks before the degree is to be conferred. The thesis should follow the prescribed form and must have the approval of the major professor. Directions for preparation of the thesis are available in the Graduate Studies office. The reader's copies of the thesis are then submitted to the members of the Thesis Committee who, after reading the thesis, will notify the graduate Director whether they find it acceptable for the purpose of examining the student.

9. **Final Oral Examination:** Satisfactory performance on the Final Oral Examination in which the student defends his thesis before the Thesis Committee is required. This examination is open to the public. After a successful examination, three copies of the final thesis must be deposited with the School of Graduate Studies. Each copy must bear the approval signatures of the major professor (chairman of the Thesis Committee) and the graduate Director.

10. Satisfactory completion of any required courses and fulfillment of any additional requirements of the student's major department, or the institution.

Master of Science (Plan B).

This degree is designed for those who have, or are in the process of earning a professional degree such as the M.D., D.D.S., or D.V.M.

1. **Graduate Study:** Forty-five quarter hours of graduate study beyond the Bachelor's degree is required. A minimum of fifteen quarter hours must be allocated to advanced coursework (800 series) in or related to the major field. No course of the 600-700 series or an equivalent course, nor any course that the student used to satisfy any requirement for a professional degree or an equivalent course may be used to satisfy this requirement. Thirty quarter hours of the required forty-five are to be allocated to seminars (901, 902, 903), problems (921) and research (930) for the thesis.
2. Satisfactory compliance with the remaining requirements for this degree which are identical to requirements 2 through 10 inclusive for the Master of Science degree described above.

Master of Science in Medical Illustration:

1. **Graduate Study:** Forty-five quarter hours of graduate study beyond the Bachelor's degree is required. A minimum of thirty quarter hours is to be allocated to coursework in or related to the major field.
2. **Residence:** One full academic year in residence is required.
3. **Program of Study and Graphic Project Proposal:** A program of study and an outline of the work proposed as a basis for a thesis or graphic project which has been approved by the Thesis Committee and the graduate Director.
4. **Admission to Candidacy for the Master of Science Degree in Medical Illustration:** Students will be eligible for admission to candidacy for this degree by the Director of the School of Graduate Studies when they have met requirement 3 for this degree. There is no commitment that courses will be credited toward a degree until the student is accepted as a candidate for a degree. Requirements for candidacy eligibility must be completed at least one quarter before the proposed graduation date.
5. **Application for Graduation:** Each candidate for a graduate degree must apply for a graduation and pay the appropriate diploma fee.
6. **Thesis or Graphic Project:** Three reader's copies of the thesis or graphic project must be submitted to the School of Graduate Studies not later than three weeks before the proposed graduation date. The thesis or graphic project should follow the prescribed form and must have the approval of the major professor. Directions for preparation of the thesis or graphic project are available in the Graduate Studies office. The reader's copies of the thesis or graphic project are then submitted to the members of the Thesis Committee who after reading it will notify the graduate Director whether they find it acceptable for the purpose of examining the student.
7. **Final Oral Examination:** Satisfactory performance on the Final Oral Examination in which the student defends his thesis or graphic project before the Thesis Committee, is required. This examination is open to the public. After a successful examination, three copies of the final thesis or graphic project must be deposited with the School of Graduate Studies. Each copy must bear the approval signatures of the major professor (chairman of the Thesis Committee) and the graduate Director.

8. Satisfactory completion of any required courses and fulfillment of any additional requirements of the student's major department or the institution.

DEPARTMENTS AND COURSES

Anatomy

Chairman: GATZ

Faculty: ALLEN, BERNARD, BOWLES, MCDONALD, MCKENZIE, WELLBAND

Recommended preparation: An undergraduate major in zoology or a major in chemistry or physics with a minor in zoology (at least three basic courses).

ANM 701. Gross Anatomy. *10 hours.*

A lecture and laboratory course which requires participation in a satisfactory dissection of the human body. *Dr. Gatz and staff.*

ANM 702. Histology and Embryology. *8 hours.*

A study of the fundamental tissues and the adult organs with relation to function and development. *Dr. Bowles and staff.*

ANM 703. Neuroanatomy. *4 hours.*

A study of the gross and microscopic structure of the human nervous system and organs of special sense. *Dr. Gatz and staff.*

ANM 801. Comparative Vertebrate Morphology. *4 hours.*

A course in which the systems of the vertebrate body are considered phylogentically. Various representative vertebrate animals are dissected.

ANM 802. Comparative Vertebrate Histology. *4 hours.*

A comparative study of the vertebrate tissues and organs. *Dr. Gatz.*

ANM 803. Animal Cytology. *4 hours.*

Physico-chemical study of protoplasm, cellular constituents, and their role in cell physiology. *Dr. Gatz.*

ANM 804. Cytology and Cytogenetics. *4 hours.*

Methods and mechanics of cell division, structure, and function of chromosome, nuclear, and chromosome chemistry, genes, chromosomal aberrations. *Dr. Gatz.*

ANM 805. Endocrinology. *4 hours.*

Consideration of comparative vertebrate morphology, function, and inter-relationships of the endocrine glands. Laboratory work includes a problem. *Dr. Gatz.*

ANM 806. Microanatomic Technique. *3 hours.*

Basic principles and practices employed in the preparation of tissues for histological and histochemical examination. *Dr. Bernard.*

ANM 807. Embryology. *4 hours.*

Fundamental principles of mammalian development. *Dr. Bowles.*

ANM 808. Advanced Embryology. *4 hours.*

Detailed consideration of germ cell production and fertilization, implantation, sex determination, and an introduction to experimental and chemical embryology. Human embryological sections and dissections are used. *Dr. Bowles.*

ANM 809. Fetal and Infant Anatomy. *4 hours.*

Dissection and study of the newborn. *Dr. Allen.*

ANM 810. Analysis of Development. *2 hours.*

Seminar for the review and discussion of recent literature in morphogenesis designed to broaden the concept of problems in development and differentiation. *Staff.*

ANM 811. Genetics. *3 hours.*

Demonstrations of the principles of human heredity. *Dr. Bragassa and staff.*

ANM 812. Anatomy and Physiology of the Nervous System. *4 hours.*

Gross and microscopic anatomy of the central and autonomic nervous system; consideration of current research and special equipment for physiological and anatomical investigation. *Staff.*

ANM 816. Histochemistry. *3 hours.*

Presentations of the basic aims, principles and procedures of histochemistry. *Dr. Bernard.*

ANM 901, 902, 903. Seminar in Anatomy. *1 hour each. Staff*

ANM 921. Investigation of a Problem. *Credit to be arranged. Staff.*

ANM 930. Research (for Dissertation or Thesis). *Credit to be arranged. Staff.*

Biochemistry

Chairman: HALL

Faculty: BEHAL, FERNANDEZ, HARMS, HOLCOMB, HOWARD, HUISMAN, MARSTON, SINGAL, WYCOFF.

Recommended preparation: An undergraduate major in chemistry including inorganic and organic chemistry, quantitative analysis, three quarters of physical chemistry, three quarters of physics, differential and integral calculus, and basic courses in biology.

BCH 610. Instrumentation. *3 hours.*

Practical application and simple theory of the pH meter, colorimeter, spectrophotometer (ultraviolet, visible, and infrared), polarimeter, radioisotope equipment, microscope, ultracentrifuge, and other optical and electronic instrumentation. *Dr. Harms.*

BCH 701, 702. General Biochemistry. *7 and 5 or 6 and 6 hours respectively.*

Lecture and laboratory courses covering the chemical composition and organization of the constituents of living matter, enzymes, and metabolism. *Dr. Hall and staff.*

BCH 811. Biochemical Preparations. *1 to 6 hours.*

Laboratory preparations of compounds of biochemical importance by synthesis and isolation from natural sources. *Dr. Howard.*

BCH 812, 813, 814. Biochemical Methods.

3 hours, or hours of credit may be arranged.

A course in countercurrent distribution, column chromatography, filter paper tracer techniques, and other special techniques. *Staff.*

BCH 815. Radioisotopes in Biological Research. *3 hours.*

The theory, utility, and methodology for the use of radioisotopes in biological research. This course is listed under Biochemistry and Physiology and may be considered to be a course in either discipline. *Drs. Harms, Reichard, and Singal.*

BCH 821. Chemistry and Metabolism of Carbohydrates. *3 hours.*

An advanced lecture course covering the metabolism of carbohydrates. BCH 702 prerequisite. *Dr. Behal.*

BCH 822. Chemistry and Metabolism of Lipids. *3 hours.*

An advanced lecture course covering the metabolism of lipids. BCH 702 prerequisite. *Dr. Wycoff.*

BCH 823. Chemistry and Metabolism of Proteins and Nucleic Acids. *3 hours.*

An advanced lecture course covering the metabolism of proteins and nucleic acids.

BCH 702 prerequisite. *Drs. Singal and Hall.*

BCH 824. Enzymology. *3 hours.*

The properties of enzymes, kinetics, and mechanism of enzyme action. BCH 702 prerequisite. *Dr. Behal.*

BCH 825, 826. Biochemical Disorders of Disease. *1 and 3 hours.*

The application of biochemistry to the investigation of metabolic and degenerative diseases in man. BCH 702 prerequisite. *Dr. Huisman.*

BCH 829. Protein Chemistry. *3 hours.*

An advanced lecture course covering the physical properties, analysis of, and structural studies on proteins. *Drs. Huisman and Smith.*

BCH 830, 831, 832. Advanced Organic Chemistry. *3, 3, and 2 hours respectively.*

Modern Theories of organic chemistry with emphasis on reaction mechanisms of biochemical interest. *Dr. Howard.*

BCH 833. Physical Methods of Structure Determination in Organic Chemistry. *2 hours.*

Lectures and problems involving use of spectroscopic methods (IR, U. V., Vis, and N. M. R.). *Dr. Howard.*

BCH 834. Advanced Organic Chemistry Laboratory. *2 hours.*

Individual preparations illustrating recent advances in synthetic methods. *Dr. Howard.*

BCH 841, 842, 843. Physical Chemistry. *5 hours each.*

The principles of physical chemistry which are basic to biochemistry. *Dr. Fernandez.*

BCH 851, 852, 853. Topics in Analytical Chemistry. *3 hours each.*

Basic principles of chemical separations and measurements of importance in biochemistry and clinical chemistry. *Drs. Holcomb and Marston.*

BCH 902, 903. Seminar in Biochemistry. *1 hour each. Dr. Huisman.*

BCH 921. Investigation of a Problem. *Credit to be arranged. Staff.*

BCH 930. Research (for Dissertation or Thesis). *Credit to be arranged. Staff.*

Endocrinology

Chairman: GREENBLATT

Faculty: BYRD, JUNGCK, MAHESH

Recommended preparation: Coursework in inorganic, organic, and physical chemistry, qualitative and quantitative analysis, and in biological sciences including such courses as physiology, anatomy, histology, embryology, zoology, etc.

END 701. Biochemistry of Steroid Hormones. *3 hours.*

Studies of the secretion, biosynthesis, transport, metabolism and excretion of steroid hormones. *Staff.*

END 702. Biochemistry of Non-Steroid Hormones. *2 hours.*

Studies of the hormones of the pancreas, and pituitary and thyroid glands. *Staff.*

END 801. Clinical Endocrinology. *2 hours.*

Clinical survey of the function of hypothalamus, pituitary, adrenals, gonads, thyroid, and pancreas, and the diagnosis and treatment of endocrine disorders associated with these glands. *Staff.*

END 802. Advanced Clinical Endocrinology. *6 hours.*

A continuation of END 801 at an advanced level. Included is participation in the diagnosis, work-up, treatment, and discussion of selected patients with various endocrine disorders. *Staff.*

END 803. Endocrinology of Reproduction: The Pituitary-Ovarian Axis. *3 hours.*

A study of compounds that effect the inhibition or release of pituitary hormones, and factors that stimulate or inhibit ovulation. Laboratory and lecture exercises. *Staff.*

END 804. Endocrinology of Reproduction: Uterine Motility. *3 hours.*

Studies on drugs that stimulate or inhibit uterine motility. Laboratory and lecture exercises. *Staff.*

END 805. Endocrinology of Reproduction: The Ovaries. *3 hours.*

Factors that influence follicular stimulation and/or luteinization in the ovary. Laboratory and lecture exercises. *Staff.*

END 806. Endocrinology of Reproduction: Reproductive Physiology of the Testis. *3 hours.*

Laboratory and lecture exercises. *Staff.*

END 807. Clinical Aspects in Human Reproductive Physiology. *5 hours.*

The essentials in human reproduction and the application of present day knowledge in the promotion of fertility as well as fertility controls. *Staff.*

END 808. Human Cytogenetics. *2 hours.*

A study of the relationships between chromosome morphology, function and disease. Consideration of chemical and physical nature of the chromosome, chromosomal aberrations, ploidy, significant of sex chromatin, inheritance of chromosomal defects and genetics of cells in culture. *Dr. Boyd.*

END 809. Human Cytogenetics—Laboratory techniques. *3 hours.*

A laboratory study of methods used in human cytogenetics including methods for culture and chromosome analysis and somatic cells, sex chromatin, autoradiography, photomicrography, meiotic preparations and solid tissue culture. *Dr. Boyd.*

END 810. Biochemical Methods in Endocrine Research. *3 hours.*

Work in specialized methods such as fractionation and individual estimation of steroids, determination of aldosterone, chromatography, and use of isotopes. *Staff.*

END 811. Laboratory Procedures in Clinical Endocrinology. *2 hours.*

Studies and experience in the estimation of 17-ketosteroids, 17-ketogenic steroids, pregnandiol, urinary gonadotropins, PBI pregnancy tests, estrogens. *Staff.*

END 901, 902, 903. Seminar in Endocrinology. *1 hour each. Staff.*

END 921. Investigation of a Problem. *Credit to be arranged. Staff.*

END 930. Research (for Dissertation or Thesis). *Credit to be arranged. Staff.*

Medical Illustration

Chairman: PARKES

Faculty: GARLINGTON, LANIER, STODDARD

Recommended preparation: See the requirements for admission to the graduate program in Medical Illustration.

MIL 801. Advanced Techniques of Medical Illustration. *10 hours.*

Advanced training in the techniques and mediums of the medical illustrator in depicting major operative procedures, endoscopic examinations and ophthalmological conditions and procedures. *Mr. Parkes and staff.*

MIL 802. Departmental Development and Administration. *1 hour.*

Instruction is given in how to institute or develop a department of medical illustration, the photographic and art materials and equipment necessary in such departments, recommended types of clerical forms and records and departmental responsibilities and the general administration of a department. *Mr. Parkes and staff.*

MIL 803. Interpretive and Reconstructive Drawing. *2 hours.*

This course correlates the study of pathology and art in the drawing of autopsy and fixed specimens and the reconstructional drawing of specimens as they appeared during life. The diagrammatic representation or conditions of organs and the physiological effect on other organs as a contributing factor in death is depicted in such drawings. *Mr. Parkes and staff.*

MIL 804. Scientific Exhibit Production. *1 hour.*

The methods of planning a scientific exhibit from the first discussions with an exhibit or to the final presentation is covered. This involves a scale drawing or make-up of the exhibit as well as discussion of various types of cabinet work, lettering, and back-lighting of transparent materials.

MIL 811, I, II. Pathology—General Pathology. *16 hours.*

The basic principles of pathology and the important general and systemic manifestations of disease. *Dr. Stoddard and staff.*

MIL 812. Clinical Pathological Conference. *No credit.*

Gross and microscopic pathological findings are used in the evaluation and analysis of case histories of individual patients. *Dr. Stoddard and staff.*

MIL 928. Medical Illustration—Graphic Project. *15 hours.*

The presentation in exhibit form of a collection of drawings of operative studies and clinical procedures. *Mr. Parkes and staff.*

MIL 930. Medical Illustration—Thesis. *15 hours.*

A written and illustrated thesis may be substituted for MIL 928 should the candidate for a degree so desire.

Medical Microbiology and Public Health

Chairman: DIENST

Faculty: BANISTER, BEHAL, DENTON, GARDNER, LEFKOWITZ, ROESEL, WHITE

Recommended preparation: Adequate background in biology and chemistry, usually an undergraduate major in biology and a minor in chemistry, or major in chemistry with a minor in biology.

MPH 701. General Microbiology: Bacteria and Immunity. *5 hours.*

Principles of microbiology with emphasis on the pathogenic bacteria, and the mechanisms of infection and resistance. Properties of the commoner pathogenic bacteria and methods for cultivation, isolation and identification. *Dr. Dienst and staff.*

MPH 702. General Microbiology: Viruses, Rickettsiae, and Fungi. *5 hours.*

Principles of microbiology with emphasis on the pathogenic viruses, rickettsiae, and fungi. Properties of the commoner organisms of this type and methods for cultivation, isolation, and identification. *Dr. Dienst and staff.*

MPH 703. Parasitology. *3 hours.*

Studies of the animal parasites of man and their mode of transmission. *Dr. Denton and staff.*

MPH 801. Immunology. *5 hours.*

Biological, physical, and chemical properties of antigens and antibodies; mechanisms of precipitation and agglutination reactions, cytotoxic reactions, mediated by antibody and complement; mechanisms of antibody formation; nature and mechanisms of hypersensitivity reaction and immunology and chemistry of blood group substance. MPH 701 prerequisite. *Drs. Gardner and Roesel.*

MPH 802. Bacterial Genetics. *2 hours.*

A consideration of nucleic acid metabolism and heredity in microorganisms including conjugation, transduction, and transformation. *Drs. Behal and Roesel.*

MPH 803. Advanced Virology. *3 hours.*

Studies of animal viruses, and newer techniques for cell culture and identification. MPH 701-702 prerequisite. *Dr. Lefkowitz.*

MPH 804. Advanced Mycology. *3 hours.*

Lectures and experimental studies of fungi pathogenic for man. MPH 701-702 prerequisite. *Dr. Denton.*

MPH 805. Immuno-chemistry. *3 hours.*

Advanced immunology with emphasis on the clinical aspects. MPH 801 prerequisite. *Dr. Gardner.*

MPH 806. Bacterial Physiology. *3 hours.*

Intermediary metabolism peculiar to microorganisms and its relationship to the effect of the chemical environment on the growth and death of microorganisms. MPH 701-702 prerequisite. *Dr. Behal.*

MPH 807. Epidemiology. *3 hours.*

Principles and methods of epidemiology investigation. Studies of the distribution and dynamic behavior of disease in the population including etiologic factors and modes of transmission and pathogenesis. MPH 701-702 prerequisite. *Dr. Dienst.*

MPH 808. Cell and Tissue Culture. *5 hours.*

Principles and techniques of cell and tissue culture. Emphasis on tissue culture techniques used in the study of viruses, bacteria, and immunologic problems. *Drs. Lefkowitz and Roesel.*

MPH 809. Application of Specialized Equipment to Microbiological Research. *2 hours.*

Dr. Banister.

MPH 810. Hematology. *3 hours.*

A consideration of fundamental hematologic concepts and practical laboratory procedures. *Dr. Gardner.*

MPH 811. General Pathology. *3 hours.*

The course is intended to present the most important areas of general pathology to investigators in the biological field who do not have a medical background and wish to become acquainted with basic mechanisms of disease at the level of cells and tissues. *Staff.*

MPH 812. Host-Parasite Relationship. *3 hours.*

This will be a series of lectures and seminars on the biochemical and immunological relationships between infectious agents and their hosts. *Drs. Chew and White.*

MPH 813. Medical Entomology. *2 hours.*

Study of arthropods of medical importance with emphasis on the epidemiology of the arthropod-borne diseases. *Dr. Denton.*

MPH 814. Sanitary Bacteriology. *3 hours.*

MPH 701-702 prerequisite. *Dr. Dienst.*

MPH 815. Community Health. *3 hours.*

Includes personal, institutional, community, and industrial hygiene. Field trips and conferences to support community health studies. *Dr. Dienst.*

MPH 901, 902, 903. Seminar in Microbiology. *1 hour each.*

Dr. Banister and staff.

MPH 921. Investigation of a Problem. *Credit to be arranged. Staff.*

MPH 930. Research (for Dissertation or Thesis). *Credit to be arranged. Staff.*

Pharmacology

Chairman: SUTHERLAND

Faculty: AHLQUIST, GEBER, JERRAM, RILEY

Recommended preparation: Major training in at least one of the following fields: zoology, anatomy, microbiology, physiology, biochemistry, botany, mathematics, and electronics. Courses in several of the fields other than the major fields are desirable.

PHM 701. General Pharmacology and Toxicology. *7 hours.*

Studies in pharmacodynamics, pharmacotherapeutics, toxicology, posology, and prescription writing. *Dr. Sutherland and staff.*

PHM 711. Project in Pharmacology. *Credit will be arranged.*

Must be taken concurrently with PHM 701. *Staff.*

PHM 801. Biochemical Aspects of the Mechanisms of Action of Drugs. *3 hours.*

Biochemical aspects of the actions of chemical agents on living materials.

PHM 802. Special Methods in Pharmacological Research. *3 hours.*

Physiological and biochemical methods employed in pharmacological investigations.

PHM 803. Neuropharmacology. *2 hours.*

Selected topics related to the action of chemical agents on the nervous system.

PHM 804. Advanced Pharmacology. *2 hours.*

Research objectives in pharmacology. Current concepts and trends in pharmacological research.

PHM 805. Pharmacotherapeutics. *2 hours.*

Basic pharmacological principles in the use of drugs in therapy.

PHM 901, 902, 903. Seminar in Pharmacology. *1 hour each.*

Staff.

PHM 921. Investigation of a Problem. *Credit to be arranged.*

Staff.

PHM 930. Research (for Dissertation or Thesis.) *Credit to be arranged.*

Staff.

Physiology

Chairman: DOW

Faculty: BAKER, DAVIS, ELLISON, O'BRIEN, REICHARD, REMINGTON, WALLACE

Recommended preparation: Chemistry, through organic and quantitative analysis; an introductory course in zoology; one course each in comparative anatomy and embryology; a full year in physics and mathematics through differential and integral calculus.

PHY 701, 702. Human Physiology. *12 hours total.*

Introductory and applied human physiology. This course is a prerequisite for the advanced physiology courses. *Dr. Dow and staff.*

PHY 801. Introductory Biophysics. *3 hours.*

Staff.

PHY 802. Cardiodynamics. *3 hours.*

Physiology of the heart, including structure, development, action as muscle, and dynamics of its pumping action. *Dr. O'Brien.*

PHY 803. Peripheral Circulation. *3 hours.*

A study of the architecture and hemodynamics of the peripheral vasculature. *Dr. Davis.*

PHY 804. Muscle Physiology. *3 hours.*

General characteristics of muscle action and differences between the three types of muscle. *Dr. Remington.*

PHY 805. Blood Flow Regulation. *3 hours.*

A study of the determinants affecting cardiac output and peripheral flow, with consideration of the techniques for measuring the flow. *Dr. Dow.*

PHY 806. Respiration. *3 hours.*

The mechanics and regulation of human respiration with consideration of practical techniques for the measurement of ventilation. *Dr. Ellison.*

PHY 807. Body Fluids. *3 hours.*

The factors governing the distribution of body water, with consideration of the techniques for measuring the size of the individual compartments. *Dr. Baker.*

PHY 808. The Experimental Animal. *3 hours.*

A consideration of the recognition of animal pathology, and the proper selection and care of experimental animals. *Dr. Wallace.*

PHY 809. Neurophysiology. *3 hours.*

A consideration of the physiology of the central nervous system in quadrupeds and man. *Dr. Dow.*

PHY 810. Hemodynamics. *3 hours.*

Blood flow and the forces that produce it, including reservoir function of large arteries and measurement and regulation of cardiac output. *Dr. Dow.*

PHY 815. Radioisotopes in Biological Research. *3 hours.*

The theory, utility, and methodology for the use of radioisotopes in biological research. This course is listed under Physiology and Biochemistry and may be considered to be a course in either discipline. *Drs. Harms, Reichard, and Singal.*

PHY 901, 902, 903. Seminar in Physiology. *1 hour each.*

Staff.

PHY 921. Investigation of a Problem. *Credit to be arranged.*

Staff.

PHY 930. Research (for Dissertation and Thesis). *Credit to be arranged.*

Staff.

Statistics

Computer Center Director and Instructor of Statistics and Genetics: *Dr. Bragassa.*

STA 601. Basic Computer Principles and FORTRAN Programming. *3 hours.*

This course deals with basic data processing concepts and assumes no prior knowledge in this field. Topics covered include punch cards and codes, basic elements of a computer and their function; program flow charting, coding and testing. The program language taught is FORTRAN II. The computer is an IBM 1620. *Dr. Bragassa.*

STA 801. Statistics.

5 hours.

The fundamentals of statistics including such concepts as probability, frequency distribution, tests of significance, randomization, chi square analysis, correlation and regression, and analysis of variation. *Dr. Bragassa.*

Foreign Languages

Non-credit courses in Scientific German and French reading are usually offered in the Fall quarter. The foreign language examinations are given around mid-January. Students interested in taking either of these two language courses should notify the Graduate Studies Office by 1 September.

SCHOOL OF MEDICAL ILLUSTRATION

The Medical College of Georgia provides facilities for the teaching of both undergraduate and graduate courses in Medical Illustration. Students who fulfill the prerequisite requirements for this course of study are given instruction in the materials and techniques of medical illustration, and also are enrolled in appropriate preclinical courses and medical students where comparable grade standards are essential.

Emphasis is placed on the development of proficiency in depicting operative and clinical procedures, the statistical results of research and the illustration of books and manuscripts. Of similar importance is the modeling and casting of three-dimensional anatomical models and facial prosthetics, and the design and production of medical exhibits.

Stress is given to the acquisition of basic medical knowledge and the means by which scientific information may be converted into illustrations which are clear, concise, accurate, and aesthetic.

NATURE OF THE PROFESSION

Modern medicine is making increased use of the artist's talents to reach broad and varied groups through publications, television, lectures, and exhibits. To meet the exacting requirements of each communication method, the medical illustrator chooses from such media as drawing, painting, sculpture or photography, in which making artificial body parts or functional improvements.

Some illustrators specialize in a single medium; others use several. Sometimes illustrators focus their interest within one of the medical specialties. Occasionally the artist works as a member of a research team, not only to provide illustrations, but to assist with the research problem. Often the illustrator's skills are used for making artificial body parts or functional improvements.

FACULTY AND STAFF

Director: PARKES

Faculty: BOWLES, BRAGASSA, BYRD, GARLINGTON, GATZ, LANIER, MORETZ, SHEPEARD, SISSON

ADMISSION INFORMATION AND REQUIREMENTS

General undergraduate admission requirements and procedure are listed on pages 15 and 16. Only those requirements peculiar to the program in Medical Illustration are listed here. Admission requires "a high degree of artistic ability in fine and applied arts and competence which has been developed through training, with additional broad training in the arts, humanities, and biological sciences".

Applicants are considered on the basis of their academic qualifications, appraisals from college instructors, and evidence of art ability as demonstrated by submitted drawings. Other requirements:

1. A personal interview at the discretion of the department director.
2. Transcripts of the first two years of college work, including acceptable coverage of certain subjects as suggested below.

	Quarter Hours
Science (Introductory biology, elementary and applied human physiology, comparative anatomy of vertebrates, vertebrate embryology and histology)	30
Liberal Arts (English, foreign language, mathematics, sociology, psychology, philosophy)	20
Art (Art fundamentals, freehand drawing, perspective, figure drawing, layout and lettering, oil painting, wash drawing, art anatomy, sculpture, design)	40
TOTAL	90

The subjects in each of the three categories may not be obtained at all colleges, and the subjects suggested are too numerous to be adequately covered in two years. They are listed simply to give the student an idea of subjects which could comprise a pre-medical illustration curriculum.

FEES AND EXPENSES

General information concerning fees is given on pages 12 and 13. Estimated costs specifically applicable to this program (books, art supplies, etc.) are: $100.00 for the first year: $50.00 for the second year; $125.00 for the third (Graduate) year.

CURRICULUM

The curriculum consists of two parts. The first is two years of undergraduate subjects, comparable to the junior and senior years in an undergraduate college. Successful completion of the prerequisite curriculum as outlined above, and of the third and fourth years on the Medical College campus, results in the award of the degree of Bachelor of Science in Medical Illustration. The student then may request admission to the School of Graduate Studies for a year of additional study leading to the degree of Master of Science in Medical Illustration.

Applicants who already have completed four years of college and who have received a baccalaureate degree will be enrolled in the same program outlined below as undergraduate student candidates for the Bachelor of Science degree in Medical Illustration.

The curriculum is as follows:

Junior year

		Quarter Hours
Fall quarter		
MIL 370.	Gross Anatomy	10
MIL 371.	Principles of Surgery	0
MIL 350.	Half Tone Drawing Techniques	5
MIL 353.	Pen and Ink—Airbrush	1
MIL 355.	Charts, Graphs, Statistics	1
Winter quarter		
MIL 372.	Principles of Surgery	0
MIL 374.	Psychiatry and Human Development	1
MIL 351.	Half Tone Drawing Techniques	5
MIL 354.	Pen and Ink—Airbrush	1
MIL 356.	Charts, Graphs, Statistics	1
MIL 359.	Commercial Medical Illustration	2
MIL 361.	Ophthalmological Drawing	1
MIL 362.	Operating Room Sketching	1
MIL 364.	Surgical Drawing	1
MIL 376.	Physiology (see course description)	
Spring quarter		
MIL 373.	Principles of Surgery	0
MIL 378.	Clinical Surgery	2
MIL 375.	Psychiatry and Human Development	1
MIL 352.	Half Tone Drawing Techniques	5
MIL 358.	Anatomical Sculpture	2
MIL 363.	Operating Room Sketching	2
MIL 365.	Surgical Drawing	2
MIL 366.	Medical Photography	1
MIL 377.	Physiology (see course description)	

Senior year

Fall quarter

MIL 470.	Histology and Embryology	10
MIL 450.	Operating Room Sketching	3

MIL 453.	Surgical Drawing	3
MIL 458.	Medical Photography	1

Winter quarter

MIL 471.	Neuroanatomy	4
MIL 472.	Genetics	1
MIL 473.	History of Medicine	1
MIL 456.	Endoscopic Procedures	1
MIL 451.	Operating Room Sketching	3
MIL 454.	Surgical Drawing	3
MIL 459.	Medical Photography	1
MIL 361.	Color Rendition	1
MIL 463.	Mechanics and Ethics of Medical Publishing	1

Spring quarter

MIL 474.	History of Medicine	1
MIL 475.	Moulage and Prosthetics	1
MIL 452.	Operating Room Sketching	4
MIL 455.	Surgical Drawing	4
MIL 462.	Color Rendition	1
MIL 460.	Medical Photography	1
MIL 475.	Statistics	1

COURSE DESCRIPTIONS

MIL 370. Gross Anatomy. *First year, 10 quarter hours.*

Dissection of a human body by students assigned in groups of four working under the supervision of the faculty. *Dr. Gatz and staff.*

MIL 371, 372, 373. Principles of Surgery. *Three quarters, 3 quarter hours.*

Lectures concerning pertinent areas of general surgery and the surgery subspecialties. *Dr. Moretz and staff.*

MIL 378. Clinical Surgery. *Third quarter, 2 quarter hours.*

An exercise in which the students perform standard operations on anesthetized animals. *Dr. Engler.*

MIL 374, 375. Psychiatry and Human Development. *Second and third quarters, 2 quarter hours.*

Introduction to the relationship to physical environment and behavioral factors in the development of children and adults. *Dr. Sisson.*

MIL 350, 351, 352. Half Tone Drawing Techniques. *Three quarters, 15 quarter hours.*

Instruction in the use of the mediums of the medical illustrator; carbon dust, water color wash, etc., in depicting anatomical and pathological specimens in continuous tone. *Mr. Parkes and staff.*

MIL 353, 354. Pen and Ink—Airbrush. *First and second quarters, 2 quarter hours.*

The study of illustrating medical material in line work with pen and ink; the use of the airbrush in color and black and white studies. *Mr. Parkes and staff.*

MIL 355, 356. Chart, Graphs, Statistics. *First and second quarters, 2 quarter hours.*

The use of mechanical lettering and drafting instruments in the presentation of statistical and research studies in diagrams, charts, and graphs; preparation of exhibits. *Miss Garlington.*

MIL 358. Anatomical Sculpture. *Third quarter, 2 quarter hours.*

Elementary clay modeling of anatomical dissection and the casting of these objects in plaster. *Mr. Parkes and staff.*

MIL 359. Commercial Medical Illustration. *Second quarter, 2 quarter hours.*

Students prepare brochures and pharmaceutical advertising material in color from basic layout to completed drawings suitable for publication. *Mr. Parkes and staff.*

MIL 361. Ophthalmological Drawing. *Second quarter, 1 quarter hour.*

Drawings of the fundus of the eye of patients or fellow classmates are accomplished, as well as drawings of normal and pathological gross eye subjects. *Mr. Parkes and staff.*

MIL 362, 363. Operating Room Sketching. *Second and third quarters, 2 quarter hours.*

Students observe operative procedures in the operating rooms of the hospital making rough sketches of procedures for later completion. *Mr. Parkes and staff.*

MIL 364, 365. Surgical Drawing. *Second and third quarters, 2 quarter hours.*

Operating room, clinic, and examining room sketches are worked into detailed drawings using art mediums previously studied. *Mr. Parkes and staff.*

MIL 366. Medical Photography. *Third quarter, 1 quarter hour.*

Elementary photography and dark room techniques are studied. *Mr. Lanier.*

MIL 376, 377. Physiology. *Second and third quarters, 10 quarter hours.*

A course in introductory and applied human physiology. Note: students who have ten quarter hours of undergraduate credit in human anatomy and physiology will be exempt from this course. Those not having such credit will enroll in this class, eliminating courses 359, 358, 362, 364, or five quarter hours may be obtained in this subject at Augusta College evening classes.

MIL 470. Histology and Embryology. *One quarter, 10 quarter hours.*

A comprehensive study of the cell, the fundamental tissue and the adult organs with relation to function and development. *Dr. Bowles and staff.*

MIL 471. Neuroanatomy. *Second quarter, 4 quarter hours.*

The study of the gross and microscopic structure of the human nervous system and organs of special sense. *Dr. Bowles and staff.*

MIL 472. Genetics. *Second quarter, 1 quarter hour.*

Demonstrations of the principles of human heredity. *Dr. Byrd and staff.*

MIL 473. History of Medicine. *Second and third quarters, 2 quarter hours.*

Lectures on the history of the development of medicine with emphasis on trends and movements rather than a history of names and individuals. *Dr. Shepeard.*

MIL 456, 457. Endoscopic Procedures. *Second and third quarters, 2 quarter hours.*

The viewing of the cavities of the body, using cystoscopes, bronchoscopes, proctoscopes, etc., and completion of drawings in color of such procedures.

MIL 450, 451, 452. Operating Room Sketching. *Three quarters, 10 quarter hours.*

Pencil sketching in the operating rooms and clinics of the hospital. *Mr. Parkes and staff.*

MIL 453, 454, 455. Surgical Drawing. *Three quarters, 10 quarter hours.*

Completion of highly detailed drawings of surgical procedures and clinical examinations. *Mr. Parkes and staff.*

MIL 461, 462. Color Rendition. *Second and third quarters, 2 quarter hours.*

The use of water color wash, tempera, colored pencils and airbrush in the development of drawings of clinical and anatomical subject material. *Mr. Parkes and staff.*

MIL 458, 459, 460. Medical Photography. *Three quarters, 3 quarter hours.*

Advanced training in the medical photography laboratories of the photographic unit, copying of charts, graphs, etc.; the photography of patients in the studio and operating areas, photomicrography and motion picture photography. *Mr. Lanier.*

MIL 463. Mechanics and Ethics of Medical Publishing. *Second quarter, 1 quarter hour.*

Methods of printed reproduction of medical drawings and the preparation of such material for the printer and engraver. Also the ethics involved in the utilization of previously published work of other artists. *Mr. Parkes and staff.*

MIL 475. Statistics. *Third quarter, 1 quarter hour.*

Lectures on the plotting and depicting of statistical material in various methods of presentation. *Dr. Bragassa and staff.*

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN MEDICAL ILLUSTRATION

In addition to the 90 quarter hours of transfer credit permitted as noted on page 20, at least 90 quarter hours of credit must be earned in this department toward the baccalaureate degree.

A grade average of "B" must be accomplished in at least 75 per cent of all courses in residence in order to meet the requirements for graduation.

Other requirements are listed on pages 19 and 20.

RECOMMENDATION FOR GRADUATION

Recommendations for graduation from the School of Medical Illustration are made by the faculty of this school.

QUALIFYING EXAMINATION FOR THE MASTER OF SCIENCE DEGREE

During the Spring quarter of the senior year students will be given the opportunity to take the qualifying examination for admission to the graduate year of study. Prerequisites for graduate study in medical illustration are listed on page 36.

Those not successful in the examination will be expected to enroll for a third year of study following a program similar in scope but patterned on an internship in medical illustration. Completion of this academic year of study will be recognized by a certificate of accomplishment and completion of the course in medical illustration.

SCHOOL OF MEDICAL RECORD SCIENCE

The Medical College of Georgia offers a Bachelor of Science degree in Medical Record Science. The program was approved in 1962, by the Board of Regents of the University System of Georgia. Students are accepted after completion of two years of college. The curriculum of the last two years utilizes the facilities of Augusta College and the Medical College of Georgia. Professional educational activities are provided in the teaching hospital of the Medical College, the Eugene Talmadge Memorial Hospital, and in the University and St. Joseph's Hospitals, all in Augusta. Student enrollment is limited to approximately twelve per class.

The program of the junior and senior years includes liberal arts courses, study and experience in medical record science, statistics, fundamentals of medical science, law as related to medical records and medical information handling, organization and administration and systems of processing data in medical care institutions.

PHILOSOPHY AND OBJECTIVES

A medical record librarian is responsible for the development and maintenance of a system of medical records which will promote the best medical care for the patient, provide training material for interns and residents and serve as a source of information for medical research and clinical evaluation. This profession should not be confused with that of medical librarian.

Most medical record librarians are employed in hospitals. Others work in clinics, medical research centers, medical department of insurance companies, health agencies and local and state health departments.

The demand for qualified personnel is great and the number of unfilled positions is increasing, partly because of the increase in the number of hospitals and the complexity of medical records.

As a member of the health team, the medical record librarian works with the administrative, medical, and other professional staffs of the institution where she is concerned with the development, analysis, maintenance and use of records and reports.

The Medical College of Georgia School of Medical Record Science has as its aim the education of mature persons who are capable of utilizing the vast resources of this institution to acquire knowledge and attain professional status. The student is encouraged to set his own goals and, through faculty leadership, develop to his fullest potential. It is expected that our graduates will be equipped to become productive and contributory members of this profession and the institution in which they are employed and capable of accepting the responsibilities of management and service required of them. It is hoped that our graduates will acquire graduate degrees and become teachers and leaders in this challenging field of health science.

ACCREDITATION

The School of Medical Record Science is approved by the Council on Medical Education of the American Medical Association and by the American Association of Medical Record Librarians.

Graduates of the School are eligible for the registration examination of the American Association of Medical Record Librarians, successful completion of which entitles one to use the title "Registered Record Librarian" (RRL).

FEES AND EXPENSES

General information concerning fees is listed on pages 12 and 13. Additional expenses applicable to this course of study include:

Books, first quarter, Junior year	$ 25.00
Last five quarters (professional books and publications of use after graduation)	125.00
Uniforms	25.00
Incidentals	25.00

FINANCIAL ASSISTANCE

Loans and scholarships are described on page 13 of this bulletin. In addition, the American Association of Medical Record Librarians has limited funds for loan to students in this program. Information may be secured from the office of the Director of the School of Medical Record Science.

ADMISSION REQUIREMENTS

Applicants may attend any accredited college of their choice for the freshman and sophomore years; however, admission and academic requirements of the Medical College of Georgia must be met. If accepted, students transfer to the Medical College program at the beginning of the third year. Admission requirements, in addition to the general admission requirements listed on pages 15 and 16, include a curriculum for the freshman and sophomore years that show a minimum of 90 quarter hours (exclusive of Physical Education) of acceptable work, as follows:

	Quarter Hours
English	20
Mathematics (through trigonometry)	10
Science (to include anatomy and physiology)	20
Social Sciences (sociology, physiology, economics, philosophy, history)	25-30
Electives	5-15
TOTAL	90

Note: Courses in a foreign language are beneficial, particularly those in Latin. The student must be proficient or show credit in typing.

Personal Interviews

Appointments for personal interviews should be made by writing to the Director of the School as soon as the applicant becomes interested. Arrangements will be made to suit the convenience of the student whenever possible.

FACULTY

Director: Sirmans

Faculty: Davis, Johnson, Baker

CURRICULUM

At the beginning of the third year the student enters the program of the Medical College of Georgia. During the first quarter, liberal arts courses at the senior college level are taught at the Augusta College. These include psychology, statistics, and management. Beginning with the second quarter, courses in the professional program are offered on the Medical College campus. These consist of organized courses listed below with directed experience in several hospitals, the main one being the Eugene Talmadge Memorial Hospital, teaching hospital for the Medical College of Georgia.

Junior Year

Winter Quarter

		Quarter Hours
MRS 300	Anatomy and Medical Terminology I	5
MRS 310	Theory of Medical Record Science I	5
MRS 320	Organization and Administration I	3
MRS 340	Directed Experience I	1
	TOTAL	15

Spring Quarter

MRS 301	Anatomy and Medical Terminology II	5
MRS 311	Theory of Medical Record Science II	6
MRS 321	Organization and Administration II	3
MRS 350	History of Medicine	1
MRS 341	Directed Experience II	2
	TOTAL	17

Senior Year

Fall Quarter

MRS 401	Fundamentals of Medical Science I	5
MRS 410	Theory of Medical Record Science III	6
MRS 420	Organization and Administration III	3
MRS 422	Legal Aspects of Medical Records	3
MRS 440	Directed Experience III	1
	TOTAL	18

Winter Quarter

MRS 402	Fundamentals of Medical Science II	5
MRS 411	Theory of Medical Record Science IV	3
MRS 421	Organization and Administration IV	3
MRS 430	Data Processing Systems I	3
MRS 441	Directed Experience IV	1
	TOTAL	15

Spring Quarter

MRS 425	Director's Seminar	3
MRS 431	Data Processing Systems II	6
MRS 442	Directed Experience V	5
	TOTAL	14

COURSE DESCRIPTIONS

MRS 300. Anatomy and Medical Terminology I. *5 quarter hours.*

A course in human anatomy designed to meet the needs of medical record librarians using a specially prepared text.

MRS 301. Anatomy and Medical Terminology II. *5 quarter hours.*

The analysis, meaning and use of terms related to all areas of medical science, hospital services and health related fields.

MRS 310, 311, 410, 411. Theory of Medical Record Science. *20 quarter hours (5, 6, 6, 3 respectively)*

Theory of record keeping in medical care institutions; securing analysis and preservation of records; coding and indexing medical information; research techniques. Laboratory practice for proficiency.

MRS 320, 321, 420, 421. Organization and Administration. *12 quarter hours (3, 3, 3, 3 respectively).*

A study of the organization patterns in hospitals, clinics and community health agencies, medical staff organization, principles and practices essential to the efficient administration of a medical record department, professional relationships, development of standard procedures, functions and techniques of supervision and human relations. Laboratory practice for proficiency.

MRS 340, 341, 440, 441, 442. Directed Experience. *10 quarter hours (1, 2, 1, 1, 5 respectively).*

Supervised learning experience through which the student develops insight, understanding and skill in record keeping in hospitals and other medical institutions. The student learns to deal with problems of department and personnel management, accepts responsibilities for certain jobs in the medical record department, gains experience in working with professional and non-professional groups in a health agency and recognizes the need for preservation of the confidentiality of medical information.

MRS 350. History of Medicine. *1 quarter hour.*

Lectures on the history of the development of medicine with emphasis on trends and movements rather than a history of names and individuals. Presented by member of faculty of School of Medicine. (HMD 683).

MRS 401, 402. Fundamentals of Medical Science. *10 quarter hours (5, 5)*

An introduction to medical science including study of nature and cause of disease, treatment and management of patients presented by physicians representing all of the major clinical areas of medicine.

MRS 422. Legal Aspects of Medical Record Science. *3 quarter hours.*

Principles of law affecting health records; rights of persons requiring information from medical records; medico-legal problems; court procedures; principles of ethics; management of release of information from hospital medical records.

MRS 425. Director's Seminar. *3 quarter hours.*

Seminar on situations encountered in medical record departments in hospitals, clinics, and other medical facilities.

MRS 430. Data Processing Systems I. *3 quarter hours.*

Theory of hospital, medical and vital statistics with review of basic mathematical principles employed and an introduction to units used in processing data, to include methods and procedures of manual and electronic means. Basic principles of flow charting for data handling and fundamentals of machine application with emphasis on electronic computers and auxiliary equipment.

MRS 431. Data Processing Systems II. *6 quarter hours.*

Practical application of principles and procedures presented in MRS 431.

OTHER PROGRAMS

Medical Record Internship.

Graduates of the School of Medical Record Science may apply for Medical Record Internship offered by the Medical Record Department of the teaching hospital of the Medical College. Two such programs are available for the months of June, July, and August, during which the graduate assumes supervised administrative responsibilities and receives a stipend commensurate with that paid other similar personnel of the institution.

Postgraduate Professional Training in Medical Record Science.

Special arrangement may be made for those having degrees who wish to take the professional training program, provided they meet certain basic course prerequisites.

REQUIREMENTS FOR GRADUATION

The general requirements for graduation from the undergraduate program of the Medical College of Georgia are listed on pages 19 and 20.

SCHOOL OF MEDICAL TECHNOLOGY

The Medical College of Georgia offers a Bachelor of Science degree with a major in Medical Technology. In this program the student may attend any accredited college for the freshman and sophomore years, following the prescribed curriculum.

During the sophomore year the student should apply for transfer to the Medical College. If accepted, the student transfers to the medical campus at the beginning of the junior year. The number of students accepted is governed by the regulations of the Board of Schools of Medical Technology (ASCP-ASMT) and the general admission policies of the Medical College.

The program for the junior and senior years will include courses in the liberal arts and sciences as well as the practical and theoretical aspects of the various disciplines related to diagnostic procedures in hospital laboratories.

OBJECTIVES

Medical Technology is important because it permits the physician to make more definitive and precise diagnoses. The primary objective of this academic program is to train capable young people in the philosophy and methodology of the field of medical technology in order that this discipline may be effectively manned by knowledgeable and skilled personnel. It is hoped also that some of these people will be inspired to acquire graduate degrees and become teachers and leaders in technology.

ACCREDITATION

The School of Medical Technology is approved by the Council on Medical Education of the American Medical Association in collaboration with the Commissioner of Medical Technology and with the Board of Schools of Medical Technology of the American Society of Clinical Pathologists.

Graduates of the School are eligible for examination by the Registry of Medical Technologists of the American Society of Clinical Pathologists, the only official national certifying agency approved by organized medicine and so recognized by accredited colleges.

FEES AND EXPENSES

Information on fees is given on pages 12 and 13 of this Bulletin. Additional expenses applicable to this program of study include:

Junior Year:

Books	$60.00
Breakage fee*	20.00

Senior Year:

Books	60.00
Breakage fee*	20.00
Uniforms and white shoes	50.00
Incidentals (patches, subscriptions, etc.)	20.00

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*Covers expendable supplies. It is refunded minus accumulated charges at the end of the academic year.

FINANCIAL ASSISTANCE AND EMPLOYMENT OPPORTUNITIES

There are a number of scholarships and loans that are available to aid one with his Health Science education. Any student needing financial assistance should write to the Director of Women's Activities.

In the senior year students are paid a stipend of $100 per month.

REQUIREMENTS FOR ADMISSION

The applicant may attend any accredited college or university of his choice for the freshman and sophomore years. Admission and academic requirements of the Medical College must be met. If accepted, the student transfers to the Medical College at the beginning of the third year. Other requirements, in addition to general admission requirements listed on pages 16 and 17, include:

1. Submission of application forms, preferably two months before registration day.
2. A personal interview with the Director.
3. The curriculum for the freshman and sophomore years must show a minimum of 90 quarter hours (exclusive of Physical Education) of acceptable work, including the following courses:

	Quarter Hours
English	20
Mathematics (through trigonometry)	10
Political Science*	5
Foreign Language (French or German preferred. 5 hours if continuing high school language; 10 hours if changing)	5-10
Chemistry (general and quantitative or qualitative)	15
Zoology - Biology	20
History*	10
Elective	5
TOTAL	90

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*All applicants must satisfy the U.S. and Georgia History and Constitution requirements by examination or by taking the courses. See page 19. If these requirements are met by examination, 15 additional hours of electives are substituted.

FACULTY

Director: Shepeard

Faculty: Anderson, Kangelos

CURRICULUM

Courses in liberal arts will continue during the junior year in cooperation with Augusta College.

The Council on Medical Education and Hospitals of the American Medical Association requires twelve months of instruction in hospital training in the various disciplines related to diagnostic procedures. Therefore, the senior year for medical technology students consists of four full academic quarters.

COURSES FOR THE JUNIOR YEAR:

	Quarter Hours
Chemistry. Two courses from the following	10
CHM 103. Qualitative Inorganic Analysis	
CHM 281. Quantitative Inorganic Analysis	
CHM 241. Organic Chemistry I	
CHM 242. Organic Chemistry II	
CHM 201. Biochemistry	
Biology. One course from the following	5
BAC 410. Immunology	
ZOO 357. Histology	
ZOO 372. Parasitology	
BIO 221. Botany I	
BIO 222. Botany II	

BAC 350. Bacteriology	
ZOO 355. Embryology	
Social Sciences. Three courses from the following	15
History (American, English, Georgia, etc.)	
Geography	
Sociology	
Psychology	
Art and Music Appreciation	
Anthropology	
Physics. One course from the following	5
PCS 201-211. Mechanics	
PCS 202-212. Heat, Light, Sound	
PCS 203-213. Electricity, Magnetism, Modern Physics	
Medical Technology. Four courses	8
MTC 351. Medical Technology I,	
MTC 352. Medical Technology II,	
MTC 353. Medical Technology III,	
MTC 354. Medical Technology IV,	
Elective: one course	5

COURSES FOR THE SENIOR YEAR:

MTC 433.	Introduction to Pathology	1
MTC 439.	Chemistry	11
MTC 448.	Microbiology	11
MTC 467.	Urinalysis	3
MTC 471.	Blood Banking	8
MTC 481.	Hematology	8
MTC 483.	Applied Techniques (BMR, EKG, Histology)	3
MTC 493.	Medical Technology Seminar	0

COURSE DESCRIPTIONS:

MTC 351. Medical Technology I. *1 quarter hour.*

Ethics, legal and moral responsibilities, courtesy and personnel relationships. The development of medical technology to its present stage.

MTC 352. Medical Technology II. *1 quarter hour.*

History and development of bacteriology, parasitology, mycology, serology, blood banking, hematology, chemistry, histology, virology, and medicine.

MTC 353. Medical Technology III. *5 quarter hours.*

Medical terminology. A study of anatomy and terms related to all medical science, hospital services and health related specialties.

MTC 354. Medical Technology IV. *1 quarter hour.*

A course in laboratory instrumentation covering the working principles of those instruments used in laboratory medicine.

MTC 433. Introduction to Pathology. *1 quarter hour.*

A brief introduction to fundamental principles of pathology in human disease. Museum cases and gross specimens are used for demonstration. Discussion of clinical laboratory techniques in relation to diagnosis and treatment of disease is included.

MTC 439. Clinical Chemistry. *11 quarter hours.*

A transition from basic chemistry to chemistry as applied to medicine. Fundamental concepts as they pertain to colloids in physical chemical concepts in relation to carbohydrates, fats, and proteins with theory and practical application of laboratory methods in clinical chemistry.

MTC 448. Clinical Microbiology. *11 quarter hours.*

Distribution and nature of pathogenic microorganisms; mechanism of transmission, pathogenesis; means of control or prevention; methods of isolation and identification as well as related serological methods. Includes bacteria, fungi, and parasites. Theoretical and practical knowledge is increased by preceptorship, the students working with materials and problems related to the services and functions of the division. Included is practical experience in mycology, bacteriology, parasitology, agglutination, and immunological procedures that are applicable to the identification of organisms or clinical entities other than those related to blood banking.

MTC 467. Urinalysis. *3 quarter hours.*

The role of urine in diagnosis is presented as related to physiopathology, basic analysis and microscopic examination with practical experience and theory in the use of urine analysis as a diagnostic tool.

MTC 471. Blood Banking. *8 quarter hours.*

A basic outline of immunogenetics, the fundamentals of antigen-antibody reactions, and a survey of the various blood group systems as they relate to medicine with practical experience and personal instruction in all aspects of blood banking, including donor room experience from the interviewing of donors to the proper drawing of a unit of blood. In the preparation areas, the proper procedures and controls in the preparation of a unit of blood for distribution to the crossmatching line are taught. In problem assignments students learn how to approach the identification of an unknown antibody, the titering of antibodies, and how to work toward the identification of an unknown blood group.

MTC 481. Clinical Hematology. *8 quarter hours.*

Introduction to fundamental principles of formation, fluidity and coagulation of the blood with practical experience in the theories and problems of hemoglobinometry from the standardization of the instruments to bench work. Practical experience is given in the identification of various cell types. Experience is gained in recognizing abnormal cells as they appear in smears from patients with blood dyscrasias. The automatic instruments of pipetting and cell counting are used to gain familiarity with their use and the theory of the principles upon which they are based. In coagulation, students take part in the team that does the various battery of tests to elucidate the problem of abnormal bleeding or those done to control therapy.

MTC 483. Applied Techniques. *3 quarter hours.*

Three activities are undertaken in this course. (a) The principles and practices in the use of the electrocardiograph. (b) Discussions of principles of basal metabolism and experience in using the conventional instrument. (c) Basic theories of preparation, sectioning and staining of tissue, plus practical experience in the preparation of tissue specimens for microscopic examination.

REQUIREMENTS FOR GRADUATION

All students must satisfactorily complete all course and laboratory requirements. Additional requirements for graduation from the School of Medical Technology are listed on pages 19 and 20. A total of 188 quarter hours are required for the Bachelor of Science in Medical Technology degree.

OTHER PROGRAMS

The program in Medical Technology, offered by the medical College of Georgia in conjunction with the University of Georgia, will continue as follows:

> Following satisfactory completion of 155 quarter hours of prescribed work at the University, the student will spend the following twelve months at the Medical College, registering for classes at the beginning of any quarter. After acceptable completion of a year's study on the medical campus, the student returns to Athens to receive his degree of Bachelor of Science with a major in Medical Technology.

SCHOOL OF NURSING

Georgia's first state-aided program in nursing education was started in 1941 at the Evening College of Atlanta. In 1943 the University of Georgia was authorized to establish a Department of Nursing Education within the College of Education. The department was transferred to the College of Arts and Sciences in 1944; and in 1945 a program leading to the degree of Bachelor of Science in Nursing Education was established for basic students and registered nurses. In 1956, by action of the Board of Regents, the Department of Nursing at the University became the School of Nursing of the Medical College of Georgia offering the Bachelor of Science Degree in Nursing. The School of Nursing awarded the first baccalaureate degrees to be conferred by the Medical College.

There is an off-campus center located at Georgia State College, Atlanta. In addition there are offices with resident faculty at the Chatham County Health Department, Savannah, and the Cobb County Health Department, Marietta.

ACCREDITATION

The School of Nursing is accredited by the National League for Nursing, and is a member agency of the Department of Baccalaureate and Higher Degree Programs.

The School is approved by the Board of Examiners of Nurses for Georgia. Graduates are eligible to take state licensing examination, successful completion of which entitles the nurse legally to practice nursing and to use the title "Registered Nurse" (R.N.).

PHILOSOPHY

The administration and faculty believe that nursing is a significant force in the total health care of all people, and that it is through guided experiences in the preventive, curative, and rehabilitative aspects of nursing that students are able to develop a comprehensive concept of the health needs of people. It is believed that a planned program of general education extending through four academic years, combined with professional courses, aids students in learning more effectively.

The School of Nursing accepts as its aim the selection and training of young men and women who have the potential for development within our educational environment as enlightened and contributing citizens and as professional nurses. Through the use of the problem-solving approach and other planned experiences, the graduate is expected to become a purposeful, thinking, self-directed member of the professional society, able to identify and analyze data objectively, and to make critical judgments on the basis of principles in both personal and professional roles.

It is expected that graduates of the Medical College of Georgia program can work effectively with other disciplines in the care of patients. The graduate is prepared to plan, execute, and evaluate the nursing needs and care of individuals in the community; to function as a beginning professional practitioner in any field of nursing, including public health. She has had guided learning experiences in management and leadership, and with experience, the graduate with potential may move into head nurse positions. The graduate may, if ability and achievement warrant, prepare through graduate courses for positions in teaching, administration, supervision, research, or other areas.

OBJECTIVES

The objectives of the program are to provide appropriate learning experiences which enable students:

1. to develop attitudes, professional and intellectual abilities involving the use of communications skills, leadership and helping skills, general and scientific knowledge of such breadth as will make possible developments of competencies in the practice of rehabilitative, preventative, and curative nursing in all beginning positions, including public health nursing and as will provide a sound basis for future specialization.

2. to appreciate the dynamic contribution of nursing to the health goals, and their implementation for society and to develop those participatory skills essential to accepting responsibility on the health team.
3. to promote understanding of self, personal growth, and the development of creative ability in order to live more happily as well as to attain and maintain health for oneself and others.
4. to develop critical attitudes and skills in evaluation and problem solving as a basis for effective nursing practice and as a basis for contributing to the development of professional nursing.
5. to understand some aspects of the major religious philosophies and practices as they relate to personal and spiritual growth and to nursing patients and families.

FACULTY

Dean: GRANT

Faculty: AULT, BUFFINGTON, DEBRULER, DITCHFIELD, FRANKUM, GARLAND, HUGHIE, LATHAM, LEE, SHAW, SHEPPEARD

ADMISSION REQUIREMENTS

Preference will be given those applicants who have demonstrated superior ability in all areas: academic, health and personal. Admission and academic requirements of the Medical College, listed on page 15 and 16, must be satisfied. In addition the School of Nursing requires:

Age: The minimum age is 16 for admission to the freshman year of the School of Nursing.

Pre-Entrance and/or Guidance Tests: Tests of the National League for Nursing are required of all applicants. The tests should be taken as soon as possible and must be taken prior to entrance. A schedule of the examinations will be forwarded each prospective applicant with application materials.

Personal interviews: Appointments for personal interviews should be made by writing to the Dean of the School as soon as the applicant becomes interested. Applicants in the Atlanta area may have interviews at the Atlanta Center offices of the School of Nursing, which is located at Georgia State College. On occasion appointments may be arranged in other cities with the Dean, or other designated faculty members.

TRAVEL RELEASES

Before matriculation each accepted student must file written permission by parents or guardians to travel by public and/or private carrier. Forms for this purpose shall be provided by the Director of Women's Activities.

FEES AND EXPENSES

General information concerning fees is listed on pages 12 and 13. Additional estimated quarterly expenses applicable to the School of Nursing include:

Meals	$175.00
Laundry (professional uniforms during quarter enrolled in clinical laboratory courses)	10.00
Professional tests and incidentals	5.00
Books (approximate average)	30.00
Uniforms, excluding shoes (less for the student who has purchased uniform essentials earlier):	
Second year, Fall quarter	140.00
Fourth year	50.00

The cost of transportation to Augusta College, and for the quarter including instruction and experience in public health nursing, and nursing in a small community, is borne by the student. Each student is encouraged to have a car at her disposal for the quarter in which she is enrolled in public health nursing.

FINANCIAL ASSISTANCE AND EMPLOYMENT OPPORTUNITIES

The student should review the publication "Financing Health Science Program at the Medical College of Georgia", a copy of which will be sent on request.

If the student wishes to apply or compete for scholarship assistance, she should do so preferably by January 1st prior to the Fall quarter of expected enrollment.

Many local communities have scholarships available through civic and patriotic clubs, industries, foundations and similar groups. The school principal or counselor should be consulted for information concerning these possible scholarship sources.

Arrangements for assistance may be made through the Director of Women's Activities, who works closely with the Dean of the School of Nursing and the Director of Student Affairs.

STUDENT ORGANIZATIONS AND ACTIVITIES

Students in the School of Nursing, like regular students of Augusta College, participate in the activities and organizations on that campus.

In addition to the regular activities at the Medical College, nursing students belong to class organizations and the student nurses association and all are members of District IV, Student Nurses Association, including membership in the National Student Nurses Association.

Students at the Atlanta Center have organized a Nursing Education Club.

FACILITIES, GENERAL EDUCATION AND PROFESSIONAL

The general education facilities of Augusta College and The University of Georgia, combined with those of the Medical College of Georgia, offer excellent opportunities for a balanced program of liberal and professional education. Coordinated planning makes possible the inclusion of upper division courses in general and supporting educational areas, as well as the building of the nursing major on a known base of general education.

The clinical, research and laboratory facilities of the Medical College's teaching hospital (Eugene Talmadge Memorial Hospital) provide an ideal environment for professional education. Facilities are provided for the care and treatment of medical, surgical, psychiatric, obstetric and pediatric patients.

Experience in the Out-Patient Department of the College Hospital, as well as that of the University Hospital, is used in the educational planning for students.

In addition to facilities listed under General Information, the School of Nursing utilizes other agencies, including industries. Selection is made on the basis of their contribution in helping give the student a better understanding of continuity of patient care and total health planning.

CURRICULUM

The School of Nursing offers a four-year, 12-quarter, academic program leading to the degree of Bachelor of Science in Nursing.

The importance of different experiences in the college life of the student influences the curriculum design. The courses in general education and supporting areas are offered throughout the program with the exception of two quarters. They are planned to contribute to the professional courses and to the offering of a sound, integrated four-year program. It is the purpose of the School of Nursing to develop a curriculum which aids in the development of the individual personally, as a citizen and as a professional nurse.

Courses are to be taken in outlined sequence unless otherwise approved by the Dean or her designee. All course requirements for the first three years must be completed satisfactorily before beginning the senior year. For information relative to advanced credit, refer to page 16, "Transfer Credit".

First year

Fall quarter

			Quarter Hours
ENG	101.	Composition I	5
CHM	101.	Inorganic Chemistry	5
HIS	115.	History: Early Europe	5
PED		Physical Education	1

Winter quarter

ENG	102.	Composition II	5
CHM	201.	Biochemistry	5
BIO	111.	Human Anatomy and Physiology I	5
PED		Physical Education	2

Spring quarter

HIS	116.	History: European Expansion	5
PSY	101.	Introduction to Psychology	5
BIO	112.	Human Anatomy and Physiology II	5
NSG	113.	Nursing History	2
PED		Physical Education	2

Second year

Fall quarter

SOC	101.	Introduction to Sociology	5
BIO	211.	Microbiology	5
EDU	301.	Educational Psychology	5
NSG	201.	Nursing as a Profession	2

Winter quarter

NSG	202.	Principles of Teaching	4
NSG	203.	Science for Nursing	4
NSG	241.	Medical-Surgical Nursing II	11

Spring quarter

NSG	230.	Principles of Teaching	3
NSG	242.	Medical-Surgical Nursing II	11
SOC	431.	The Family	5

Third year

Fall quarter

EDU	201.	Human Development	5
NSG	331.	Mental Health and Psychiatric Nursing	11

Winter quarter

NSG	341.	Maternal-Child Health Nursing	11
Elective		(literature, mathematics, or other course)	5

Spring quarter

NSG	342.	Maternal-Child Health Nursing	11
Elective		(literature, mathematics, or other course)	5

Fourth year

Fall quarter

PHI	301.	Ethics	5
NSG	402.	Senior Clinical Nursing	11

Winter quarter

NSG	412.	Organization and Administration of Public Health	3
NSG	413.	Public Health Nursing	11
NSG	440.	Nursing in a Small Community	2

Spring quarter

NSG	452.	Foundation and Trends in Nursing and Nursing Education	5
NSG	470.	Principles of Management and Leadership	12

Throughout the program and largely in the clinical courses, an application of principles from the social-physical and biological sciences, as well as health concepts including mental health, geriatrics, nutrition and diet therapy, patient and family teaching, interpersonal relationships and communication skills, pharmacology, epidemiology, biostatistics, disaster nursing, occupational health, and rehabilitation skills will be integrated.

Nursing 440, and all courses carrying more than 5 hours credit, include laboratory practice in the clinical setting.

COURSE DESCRIPTIONS

NSG 113. Nursing History. *2 quarter hours; Fall, Spring*

A consideration of the historical development of nursing, including an analysis of the socio-economic and cultural influences affecting its evolution.

NSG 201. Nursing as a Profession. *2 quarter hours; Fall*

An orientation to the field of professional nursing with emphasis on the role of the individual in a profession, and the nursing profession in society.

NSG 202. Principles and Foundations of Nutrition. *4 quarter hours; Winter*

A study of the basic principles of nutrition and their application to the planning of normal and therapeutic diets for individuals and families. The problem-solving approach is used in the identification and application of physical and chemical factors involved in digestion and metabolism of food in relation to specific patient-family nutritional problems complicated by pathological conditions. Instructional areas and selected laboratory experiences are based on the learning needs of individual students.

NSG 203. Science for Nursing. *4 quarter hours; Fall and Winter*

A course designed to help the student integrate principles from the physical and biological sciences into meaningful concepts which underlie man's physiologic responses in health and stress.

NSG 230. Principles of Teaching. *3 quarter hours; Fall and Spring*

A study of educational philosophy, principles and teaching-learning methods and their broad application to the development of teaching materials, and to guidance of the learning of individuals and groups.

NSG 241. Medical-Surgical Nursing I. *11 quarter hours; Winter*

A study of common health problems of selected adult patients including nursing fundamentals, medical and surgical asepsis and orthopedics; and the scientific principles, attitudes and skills related to meeting the nursing care needs of those patients on the medical-surgical units, outpatient department, home, school, and other health agencies.

NSG 242. Medical-Surgical Nursing II. *11 quarter hours; Spring*

A study of the more difficult nursing care problems of selected adult patients with medical-surgical conditions including tuberculosis, selected gynecologic conditions, otolaryngology, and eye conditions, in various nursing settings.

NSG 331. Mental Health and Psychiatric Nursing. *11 quarter hours; Fall, Winter and Spring*

A study of problem-solving techniques and communication skills as they relate to psychological growth and development, and the principles concerned in nursing care of selected patients with mental health problems or psychiatric disorders.

NSG 341. Maternal-Child Health Nursing I. *11 quarter hours; Fall, Winter and Spring*

Family-centered developmental approach in the study of adolescents, involving preparation for marriage, family living and parenthood; and a study of the psychological and physiological problems encountered in each phase of the maternity cycle and with newborn infants in the neonatal period.

NSG 342. Maternal-Child Health Nursing II. *11 quarter hours; Fall, Winter and Spring*

Family-centered developmental approach to the study of children of various age levels; the promotion of their physical, social and emotional health; and the study of comprehensive nursing care during illnesses common to childhood.

NSG 402. Senior Clinical Nursing. *11 quarter hours; Fall and Winter*

Analysis of complex problems including developmental, health and long-term illness based on study of the literature and the significant theories and laws from physical, biological, social and medical sciences. Nursing hypotheses thus derived are tested and converted into theories and principles in nursing practice with individuals and patient groups in various clinical areas and settings. Academic instruction and laboratory experiences are qualitatively selected to meet the learning needs of students.

NSG 412. Public Health Organization and Administration. *3 quarter hours*

The course is designed to help the student further her knowledge of the principles of organization and administration as applied to official and voluntary public health agencies, epidemiological facts including use of biostatistics, principles of environmental sanitation in the promotion of health and prevention of diseases or handicapping conditions.

NSG 413. Public Health Nursing. *11 quarter hours; Fall, Winter and Spring*

The historical development, principles and trends in public health nursing, and principles of organization and administration of public health nursing services in a generalized nursing program in which family health service is emphasized. Laboratory in an approved public health agency.

NSG 440. Nursing in a Small Community. *2 quarter hours; Fall, Winter and Spring*

Directed observation and field instruction in a small community including a study of the responsibilities of the professional nurse in the promotion and maintenance of optimum health of patients and families who seek service in a small community hospital, and in other health and welfare agencies.

NSG 452. Foundations and Trends in Nursing and Nursing Education. *5 quarter hours; Winter and Spring*

An analysis of the trends and current problems in nursing and their relationship to nursing education programs and to the practice of professional nursing.

NSG 470. Principles of Management and Leadership. *12 quarter hours; Winter and Spring*

A study of the basic principles of scientific management, leadership and interpersonal relations; and guided learning experiences and their application to nursing team leadership and head nurse positions in nursing.

SCHOLARSHIP AND PROMOTION

Academic advancement. Promotion is dependent on satisfying all academic course requirements, and upon the maintenance of a weighted grade point average of 2.5 in each academic discipline or subject area.

Advancement examinations. The policy governing required achievement examinations shall be posted in the School of Nursing; students are expected to meet requirements of courses and achievement examinations according to current policies. All course requirements, all achievement examinations, and all validation examinations for the first three years must be completed satisfactorily before a student is permitted to register for the senior year curriculum.

REQUIREMENTS FOR GRADUATION

General requirements for graduation from the undergraduate programs of the Medical College of Georgia are listed on pages 19 and 20.

Applicable specifically to the School of Nursing:

Courses taken more than 5 years prior to graduation, if used to meet degree requirements, must be re-evaluated by the Executive Committee of the School of Nursing. Completion of all senior nursing courses, is required with at least 186 quarter hours completed for graduation. All graduates must meet the requirements for the degree as outlined for that graduating class. Refer to page 20, "Scholarship and Promotion" for grade requirement.

The College reserves the right to withhold the diploma of a student who has completed all degree requirements if her conduct fails to demonstrate appropriate social, ethical, and professional standards.

ALUMNI ASSOCIATION

The Alumni Association of the School of Nursing was formed in an effort to bring the alumni members of the Medical College of Georgia School of Nursing and the graduates of the former Department of Nursing at the University of Georgia into closer relationship, to promote educational advancement and good fellowship among the graduates and students of this school, to provide for mutual understanding to help in the solving of problems common to all members, and to provide for mutual help and improvement of the educational and professional standards of nursing, in cooperation with other professional organizations.

All persons who have graduated from the Medical College of Georgia School of Nursing, or from the former Department of Nursing of the University of Georgia, are eligible for membership in the Association. A member who contributes annually to the Association is entitled to vote, to hold office, and to receive the Alumni News, a quarterly publication about the school and its alumni.

In an effort to bring members of the Association together, an annual Lectureship is held shortly before graduation, at which time developments of the school are discussed and a paper is presented by a nationally-known authority in nursing or education.

SCHOOL OF RADIOLOGIC TECHNOLOGY

The Medical College of Georgia offers a Bachelor of Science degree in Radiologic Technology, and also offers an alternate 24-month certificate program. Both programs prepare students to become Registered Radiologic Technologists, but the baccalaureate degree program includes additional preparation for advanced work in nuclear medicine, radiation therapy, and teaching.

Students selecting the degree program may attend an accredited college or university for the first two years following the curriculum outlined below. During the sophomore year the student should apply for admission to the Medical College. If accepted, the student enters the Medical College at the beginning of the Junior year and continues for three final years, combining both scholastic courses and highly specialized on-the-job training.

OBJECTIVES AND ACCREDITATION

Because of the rapid technological advances in diagnostic and therapeutic radiology, and in nuclear medicine during the past ten years, there is now a great need for technologists with a broader background than can be obtained in a two-year certificate training program. To fill this need, the Medical College of Georgia has inaugurated a new program for qualified students leading to the Bachelor of Science in Radiologic Technology degree. The program has preliminary approval of the Commission on Technician Affairs of the American College of Radiology and meets the requirements of the American Registry of Radiologic Technologists. Graduates of both programs are eligible for examination by the Registry and subsequent certification.

FEES AND EXPENSES

Fees and expenses applicable to degree candidate students are listed on pages 12 and 13. No matriculation or tuition fee is required of students in the two-year certificate program. Students provide for their own living quarters, meals, and uniforms. Women students may live in the college residence quarters. Required books will cost approximately $40, and a fee is charged for the student health service. To offset some of these expenses, technicians in training receive the following annual stipends in return for the hospital services they provide:

First year	$ 450.00
Second year	1,050.00
Third year (degree program only)	1,600.00

REQUIREMENTS FOR ADMISSION

See pages 15 and 16 for undergraduate admission requirements and the application procedure. The School of Radiologic Technology complies with all policies, standards and procedures established by the American Registry of Radiologic Technology. Admission requirements peculiar to this program are as follows:

1. Preference will be given those applicants who have demonstrated superior academic ability, and to those who have emphasized scientific subjects.
2. Applicants for the Bachelor of Science degree must present evidence of having completed, with acceptable grades, not less than ninety quarter hours of coursework (exclusive of physical education) preferably including courses as listed below. Assistance and guidance regarding the selection of courses may be obtained on request from the Director, School of Radiologic Technology.

	Quarter Hours
English	20
Mathematics (including algebra and trigonometry)	10
Science (biology, chemistry, physics, etc.)	30
Electives	30
TOTAL	90

FACULTY

Director: C. H. Hall
Faculty: Brown, Clay, Dick, Pool, Reichard

CURRICULUM

For the Two Year Certificate:

The two-year course leading to certification by the National Registry of Radiologic Technologists is designed to produce efficient x-ray technicians capable of performing well in any type of hospital and in doctor's offices.

The course consists mainly of on-the-job training in the form of practice with supervision in all aspects of the routine working and management of an x-ray department.

At the same time there are daily classes in the fundamentals of Radiologic Technology, Radiation Physics and Protection, Anatomy, and Photographic Chemistry together with Medical Ethics and Vocabulary.

Certificate students will be granted college credits only if they are admitted as degree candidates, pay regular fees and are appropriately registered for academic credits.

The two-year certificate program pays the student in training a small graduated monthly stipend.

For the Bachelor of Science degree:

First year, three academic quarters, plus one quarter practical experience:

		Quarter Hours
RAD 301, 302, 303.	Basic Radiologic Technology	15
RAD 375.	Medical Terminology	5
MRS 301.	Medical Photography	5
		25

Second year, three academic quarters, plus one quarter practical experience:

RAD 311, 312, 313.	Intermediate Radiologic Technology	15
RAD 451.	Radiation Sensitometry Laboratory	5
Augusta College Electives from list below		15
		35

Student takes Radiologic Technologist examination for registry certification.
Third year:

RAD 421.	Advanced Radiologic Technology	5
RAD 431.	Advanced Radiologic Physics	5
RAD 341.	Nuclear Medicine Laboratory	5
Augusta College Electives from list below		15
		30

Third year alternate for those interested in Radiation Therapy:

RAD 441, 442, 443. Radiation Therapy Theory & Lab	15
Augusta College Electives from list below	15
	30

Third year alternate for those interested in Isotopes and Nuclear Medicine:

RAD 461, 462, 463. Nuclear Medicine Theory & Lab	15
Augusta College Electives from list below	15
	30

The third year alternate in either therapy or isotopes would make the student eligible to write the National Registry or Radiologic Technologists examination in the field they have chosen and, if successful, become nationally registered in either isotopes or therapy in addition to having become registered as an x-ray technologist.

Electives at Augusta College may be chosen from the following:

PCS	201-202-203.	Physics
CHM	101-102-103.	Chemistry
PSY	101.	Principles of Psychology
BUS	101.	Introduction to Business
BUS	211-212.	Principles of Accounting
BUS	435.	Business Machines
CHM	372.	Physical Chemistry
PCS	101.	Physical Science
BIO		Biology
SPC	101.	Fundamentals of Speech
SSC	101-102-103.	Typewriting

COURSE DESCRIPTIONS

RAD 301, 302, 303. Basic Radiologic Technology. *5 quarter hours each.*

These courses comprise an introduction to and basic study of elementary anatomy, radiation physics, radiation protection, and positioning of patients. Students receive instruction in taking x-ray films and critiques.

RAD 355. Medical Science Survey. *6 quarter hours.*

This course is attended by students from several undergraduate programs and is given by a member of the clinical faculty. It is intended to give students in the sub-specialties an understanding of the fundamentals of medical science and medical essentials. This course gives the student a broader view of medical science in that the lectures are delivered by members of various branches of medicine.

RAD 375. Medical Record Methods. *5 quarter hours.*

Theory and practice of medical record administration and record management. This course is similar to Medical Record Science MRS 301 and includes ethics, record preparation, coding, indexing, analysis, and research techniques.

RAD 311, 312, 313. Intermediate Radiologic Technology. *5 quarter hours each.*

These courses are a continuing study of 301, 302, 303, and the student is introduced to the more complicated types of x-ray examinations, including vascular injections followed by serialographic x-ray exposures and work with specialized x-ray equipment. At the same time, lectures are continued at a higher level in the fields of x-ray techniques, anatomy, photographic chemistry, radiation physics, and radiation protection. Supervised practical work is continued with the student being allowed more individual responsibility in the area of the patient positioning.

RAD 341. Nuclear Medcine Laboratory. *5 quarter hours.*

Basic laboratory experiments using geiger counters, gamma spectrometers and other detecting equipment to illustrate the use of radioactive isotopes in nuclear medicine and their relationship to clinical medicine and diagnostic techniques.

RAD 421, 422, 423. Advanced Radiologic Technology. *5 quarter hours each.*

A continuation of RAD 311, 312, 313. These include a further study of subjects covered in the preceding courses with the additions of departmental administration, basic nursing procedures, technique, and serialographic x-ray examinations.

RAD 431. Advanced Radiologic Physics. *5 quarter hours.*

This course is taught jointly to radiology residents and degree students in Radiologic Technology. It covers radiation physics, radiation therapy, dosimetry, and radiation protection.

RAD 451. Radiologic Sensitometry Laboratory. *5 quarter hours.*

Laboratory measurements and written reports on film latitude, speed, gamma. The validity of the reciprocity law and the resolving power and exposure time with screens are demonstrated by student experiments.

RAD 470. Medical Photography. *5 quarter hours.*

Theory, demonstration, and practice of basic techniques of medical photography with emphasis on the relationship to Radiologic Technology.

RAD 441, 442, 443. Radiation Therapy. *5 quarter hours.*

This course is designed to fit the needs of those students who wish to specialize in the field of Radiation Therapy. Students would be assigned to the department of radiation therapy and would there continue their studies in the areas of field planning, dosage calculation, x-ray beam filtration, radiation absorption in tissue, measuring instruments and methods employed in radiation therapy.

RAD 461, 462, 463. Medical Isotope Techniques. *5 quarter hours.*

For those who wish to enter the field of Nuclear Medicine. This course would provide a year's study and practice in the isotope division of the department of radiology. The subjects covered would include types of isotopes, their storage and handling. Studies would also include means of application and measurement and also the handling of patients undergoing treatment or measurement. The safe disposal of radioactive waste material and protection of the general public constitutes part of the course.

FACULTY

Agostas, William N., M.D.	*Associate Clinical Professor, MEDICINE*
Ahlquist, Raymond P., Ph.D.	*Associate Dean, School of Medicine, and Professor, PHARMACOLOGY*
Allen, Lane H., M.D.	*Professor, ANATOMY*
Allen, Marshall B., Jr., M.D.	*Professor, SURGERY, and Chief, Neurosurgery Division*
Anabtawi, Isam N., M.D.	*Assistant Professor, SURGERY (Part-time)*
Anderson, Ann S., B.S.	*Instructor, MEDICAL TECHNOLOGY*
Anderson, Frank P., M.D.	*Associate Professor, PEDIATRICS, and Director, Southeastern Respiratory and Rehabilitation Center*
Ault, Leilee P., M.S.	*Professor, Nursing*
Bailey, Henry W., M.D.	*Clinical Instructor, SURGERY*
Bailey, Joseph P., M.D.	*Assistant Professor, MEDICINE*
Bailey, Thomas E., M.D.	*Assistant Clinical Professor, PEDIATRICS*
Baker, Carleton H., Ph.D.	*Associate Professor, PHYSIOLOGY*
Baker, Gertrude W., B.S.	*Instructor, MEDICAL RECORD SCIENCE*
Banister, J. Warren, Ph.D.	*Assistant Professor, MICROBIOLOGY*
Barfield, William E., M.D.	*Assistant Professor, OBSTETRICS-GYNECOLOGY (Part-time)*
Barton, Betty P., M.S.	*Research Associate, PATHOLOGY*
Battey, Alfred M., Jr., M.D.	*Clinical Instructor, SURGERY*
Battey, Louis L., M.D.	*Associate Clinical Professor, MEDICINE*
Battey, William W., M.D.	*Clinical Professor Emeritus, SURGERY*
Bazemore, J. Malcolm, M.D.	*Clinical Professor, MEDICINE*
Behal, Francis J., Ph.D.	*Director, SCHOOL OF GRADUATE STUDIES, and Associate Professor, BIOCHEMISTRY and MICROBIOLOGY*
Bellhouse, Helen W., M.D.	*Assistant Clinical Professor, PEDIATRICS*
Bennett, James W., M.D.	*Assistant Professor, PEDIATRICS (Part-time)*
Bernard, George R., Ph.D.	*Assistant Professor, ANATOMY*
Blitch, Pierce G., Jr., M.D.	*Clinical Instructor, MEDICINE*
Bliven, Floyd E., Jr., M.D.	*Professor, SURGERY, and Chief, Orthopedic Division*
Bohler, Clorinda S., M.D.	*Assistant Professor, OBSTETRICS-GYNECOLOGY, and Instructor, PHYSIOLOGY*
Botnick, Robert S., M.D.	*Assistant Clinical Professor, MEDICINE*
Bowen, John B., M.D.	*Associate Clinical Professor, SURGERY*
Bower, Philip J., M.D.	*Clinical Instructor, MEDICINE*
Bowles, Lester L., M.D.	*Professor, ANATOMY, and Head, MICROANATOMY*
Boyd, William S., M.D.	*Associate Clinical Professor, OBSTETRICS-GYNECOLOGY*
Brackney, Edwin L., M.D.	*Professor, SURGERY*
Bragassa, Charles B., Ph.D.	*Director, COMPUTER CENTER, and Instructor, STATISTICS and GENETICS*
Bridges, Bertee, M.S.N.E.	*Instructor, NURSING*
Bridges, H. Benton, M.D.	*Clinical Instructor, SURGERY*
Briggs, Alfred P., M.D.	*Professor Emeritus, BIOCHEMISTRY*
Brocato, Simone, M.D.	*Clinical Instructor, MEDICINE*
Brown, Faith K., M.S.	*Research Associate, PHYSIOLOGY (Part-time)*
Brown, Mark D., M.D.	*Professor and Chairman, RADIOLOGY*
Brown, Stephen W., M.D.	*Associate Clinical Professor, RADIOLOGY*
Brown, Walter J., Jr., M.D.	*Assistant Professor, MEDICINE*
Bryans, C. Iverson, Jr., M.D.	*Professor, OBSTETRICS-GYNECOLOGY*
Buffington, Dorothy D., M.S.N.E.	*Associate Professor, NURSING*
Burgamy, Clyde A., M.D.	*Clinical Instructor, OBSTETRICS-GYNECOLOGY*
Burroughs, Gerald W., M.D.	*Associate Professor, PSYCHIATRY*

Butler, Harvey E., M.D.	*Clinical Instructor, MEDICINE*
Byne, M. Miller, Jr., M.D.	*Clinical Instructor, MEDICINE*
Byrd, J. Rogers, Ph.D.	*Assistant Research Professor, ENDOCRINOLOGY*
Caldwell, Joseph L., Jr., M.D.	*Clinical Instructor, SURGERY*
Carrington, Kenneth W., M.D.	*Clinical Instructor, SURGERY*
Carter, Curtis H., M.D.	*Professor, MEDICINE*
Carswell, Augustin S., M.D.	*Clinical Instructor, SURGERY*
Chandler, A. Bleakley, M.D.	*Professor, PATHOLOGY*
Chandler, John L., M.D.	*Associate Clinical Professor, SURGERY*
Chapman, Muriel E., M.A.	*Associate Professor, NURSING*
Chavez, Marcelino I., M.D.	*Associate Professor, SURGERY*
Chew, William H., M.D.	*Assistant Professor, MEDICINE*
Clark, Sarah L., M.D.	*Clinical Instructor, MEDICINE, ENDOCRINOLOGY*
Clary, Thomas L., Jr., M.D.	*Assistant Clinical Professor, MEDICINE*
Clay, Cassius M., M.S.	*Assistant Professor, RADIOLOGY*
Cleckley, Hervey M., M.D.	*Clinical Professor, PSYCHIATRY*
Clements, James D., M.D.	*Assistant Clinical Professor, PEDIATRICS*
Coleman, Blanche D., M.D.	*Clinical Instructor, OBSTETRICS-GYNECOLOGY*
Collings, Harold, Jr., M.D.	*Professor, and Chief, NEUROLOGY*
Cornett, V. Eugene, M.D.	*Assistant Professor, SURGERY*
Corpe, Raymond F., M.D.	*Assistant Clinical Professor, SURGERY*
Coryell, Margaret E., Ph.D.	*Instructor, BIOCHEMISTRY*
Cox, William W., M.D.	*Associate Clinical Professor, MEDICINE*
Craig, James B., M.D.	*Clinical Professor, PSYCHIATRY*
Cranston, William J., M.D.	*Clinical Professor Emeritus, MEDICINE*
Cumming, Joseph B., Ll.B.	*Lecturer, FORENSIC MEDICINE*
Daniel, Ernest F., M.D.	*Clinical Instructor, SURGERY*
Davis, A. J., M.D.	*Associate Clinical Professor, MICROBIOLOGY*
Davis, Darrell L., Ph.D.	*Associate Professor, PHYSIOLOGY*
Davis, Harriet F., A.B.	*Instructor, MEDICAL RECORD SCIENCE*
Dean, Waid H., Ph.D.	*Assistant Professor, PSYCHIATRY*
DeBruler, Edna M., M.P.H.	*Professor, NURSING*
Denton, J. Fred, Jr., M.D.	*Professor, MICROBIOLOGY*
DeRoller, Frances J., M.S.	*Instructor, MEDICAL ILLUSTRATION*
DeVore, Margaret B., M.D.	*Assistant Professor, ANESTHESIOLOGY*
Dick, Donald A. L., M.D.	*Professor, RADIOLOGY*
Dienst, Robert B., Ph.D.	*Professor and Chairman, MICROBIOLOGY*
Ditchfield, Alda L., M.A.	*Professor, NURSING*
Donovan, E. Scott, B.S.	*Assistant Director, CONTINUING EDUCATION*
Dow, Philip, Ph.D.	*Professor and Chairman, PHYSIOLOGY*
Dunagan, Donald, M.D.	*Clinical Instructor, PEDIATRICS*
Dunaway, Lacy D., M.D.	*Instructor, PEDIATRICS*
Dunn, Maurice, M.D.	*Associate Professor, PSYCHIATRY*
Dwyer, Thomas N., Ll.B.	*COMPTROLLER*
Echols, Joseph M., M.D.	*Clinical Instructor, OBSTETRICS-GYNECOLOGY*
Edmonds, John H., M.D.	*Assistant Professor, MEDICINE*
Edmondson, H. Turner, M.D.	*Assistant Professor, SURGERY*
Ellegood, James O., M.S.	*Research Associate, ENDOCRINOLOGY*
Ellington, Preston D., M.D.	*Assistant Professor, PEDIATRICS (Part-time)*
Ellison, Lois T., M.D.	*Associate Research Professor, PHYSIOLOGY and SURGERY*
Ellison, Robert G., M.D.	*Professor, SURGERY, and Chief, Thoracic Division*
Engler, Harold S., M.D.	*Professor, SURGERY*
Erwin, Goodloe Y., M.D.	*Clinical Instructor, MEDICINE*
Everett, Theodore, M.D.	*Assistant Clinical Professor, SURGERY*
Fair, John R., M.D.	*Clinical Professor, SURGERY*

Faulkner, Alva H., M.D.	*Assistant Clinical Professor, OBSTETRICS-GYNECOLOGY*
Fernandez, LaVerne P., Ph.D.	*Assistant Research Professor, GRADUATE STUDIES (Part-time)*
Ferrier, Donna J., M.S.W.	*Instructor, OBSTETRICS-GYNECOLOGY*
Findley, Thomas, M.D.	*Professor, MEDICINE*
Fitzgerald, Charles E., Jr., M.D.	*Clinical Instructor, MEDICINE*
Flanagin, W. Stewart, M.D.	*Associate Professor, SURGERY (Part-time)*
Fleming, Marilyn M., B.S.	*Director, PUBLIC RELATIONS*
Flowers, Shirley K., M. Ed.	*Director, WOMENS ACTIVITIES*
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William S. Freeman	Second
Carlos G. Grantham	Second
Henry W. Harper	Second
Edward L. Lehman	Second
V. B. Hatipoglu	First

Medicine:

Lewis R. Collins (Hematology)	Fellow
Allen J. Dennis (Renal Diseases)	Fellow
Daniel O. Fussell (Hematology)	Fellow
Melvin L. Hirsch (Metabolism)	Fellow
Rufus F. Martin (Infectious Diseases)	Fellow
William N. Postell (Cardiology)	Fellow
Davis C. Smisson (Renal Diseases)	Fellow
Hy C. Sussman (Infectious Diseases)	Fellow
Luther M. Thomas (Metabolism)	Fellow
Dickson B. Dunlap	Third
George W. Hoffler	Third
James P. Pittman	Third
Alton A. Reeder	Third
Leon H. Bush	Second
Hubert I. Matthews	Second
Henry G. Mealing	Second
Robert W. Smith	Second
Paul E. Cundey	First
David D. Fulghum	First
Gary B. Garrison	First
David R. Hobbs	First
Mack D. Jones	First
Elizabeth A. Singletary	First
Beverly B. Sanders	First
David N. Harvey	Intern
Ray L. McKinney	Intern
Napoleon L. Morris	Intern
Don L. Pennington	Intern
Edward M. Schlein	Intern
William A. Speir	Intern
Charles G. Walker	Intern
Anderson R. Williams	Intern

OB - Gyn:

Hernan Dominguez	Fourth
Hugh H. Gibson	Fourth
Samuel M. Goodrich	Fourth
Jack Lawler	Fourth
Gilbert L. McDonough	Third
Harry Oldham	Third
Barbara Powell	Third
Lambros C. Rigas	Third
William L. Bruns	Second
Clyde D. Gilbert	Second
John C. Mitchell	Second
William S. Smith	Second
Cecil F. Whitaker	First
George P. Williams	First

Pathology:

Luther B. Otken	Fifth
John Sesta	Second
Luther R. Mills	First
Thomas S. Kandul	Intern

Pediatrics:

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Louis A. Bowick	Second
Terrell L. Davis	Second
Inman C. English	Second
Eugene C. Jarrett	Second
Ezzat Aziz	First
George L. Echols	First

Psychiatry:

Roy G. Chambers	Third
Willard E. Quillian	Third
Nyda W. Brown	Second
Henry J. Ford	Second
Seaborn S. McGarity	Second
William E. Wood	Second
Joseph S. Houston	First
William A. Threlkeld	First

Radiology:

Vidor Bernstien	Third
Maurice Tanner	Third
Hal S. McNair	Second
Perry Moore	Second
Gerald W. Bohanan	First
Arlie E. Fiveash	First

General Surgery:

Philip E. Christopher	Fifth
Waleed N. Amra	Fourth
F. Donald Bass	Fourth
Zack J. Waters	Fourth
Ahmad Farhangnia	Third
Jerry G. Purvis	Third
Charles E. Stark	Third
Ronald S. Wise	Third
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Mikell B. Karsten	Second
Robert W. Oliver	Second
H. Sherman Blalock	First
Robert A. Boudet	First
Donald L. Boyd	First
James F. Crumpler	First
George R. Maloney	First
Robert J. Pierce	First
Wayne B. Venters	First
Erach Engineer	Intern
Arthur F. DiSalvo	Intern
Saul N. Schreiber	Intern

Neurosurgery:

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Ernest C. Fokes	Second
William H. Meeks	Second
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Ophthalmology:

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Titus D. Payne	Third
William S. Belmont	Second

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Ralph E. Moore	Third
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Paul J. Harph	First

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Harvey C. Walker	Third
Jack A. Evans	Second
Herman R. Finney	First

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